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U.S. Army Toxic and Hazardous Materials Agency

Radon Monitoring in Army Stand-alone Housing Units Final Report

April 1990

prepared for

Commander
U.S. Army Toxic and Hazardous Materials Agency
Aberdeen Proving Ground, Maryland 21010-5401

prepared by

Environmental Research Division Argonne National Laboratory Argonne, Illinois 60439 19980910 119

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Environmental Research Division, Argonne National Laboratory, Argonne, Illinois 60439-4815

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Army stand-alone housing areas locate	ed throughout the con	tinental United S	States. The me	asurements w	vere done in
accord with the existing Army Radon	Program. Quality ass	surance aspects	of the project	included the t	use of controls,
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In all, 1,117 alpha track detection September 1989 in a total of 892 res	idential structures. Ti	he monitoring p	eriod was a noi	minal 90 days	. A total of 818
detectors have been returned. Return	ed detectors, as well	as controls and	spikes, were	analyzed by T	ech/Ops
Landauer.					
A total of 55 housing structur	es exhibited radon co	oncentrations ed	qual to or great	er than 4.0 p	Ci/L (picocuries
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Radon Monitoring in Army Stand-alone Housing Units

Summary

Argonne National Laboratory (ANL) has completed screening measurements of indoor radon concentrations at 51 Army stand-alone housing properties located throughout the continental United States. Each of these housing properties has been identified for closure under the Defense Authorization Amendments and Base Closure and Realignment Act, Public Law 100-526.

Argonne conducted screening measurements in accordance with established Army policy regarding indoor radon monitoring and mitigation. Alpha track detectors (ATDs) were used for the measurements, which lasted a nominal 90 days. In all, 892 structures were monitored. These structures included single-story, single-family houses; single and multistory multiplexes; and multistory apartment buildings. Each individual family unit received at least one detector. In all, 1,117 detectors were deployed in September 1989. Of this total, 892 detectors have been returned, while 299 remain outstanding. Quality control included the deployment of 70 replicate pairs and the use of 50 detectors as controls and 50 as known standards or spikes. Spikes were developed by exposing the detectors to known radon concentrations at ANL's facilities. All analyses of placed, control, and spiked detectors were performed by Tech/Ops Landauer, Glenwood, Illinois, the manufacturer of the detectors. As an additional measure of quality control, 30 detectors were forwarded to the U.S. Environmental Protection Agency radiation laboratory in Denver for independent spiking.

In all, 55 housing units, located at 14 of the 51 monitored properties, displayed indoor radon concentrations equal to or greater than 4.0 pCi/L, the lowest action level identified in the Army Radon Program. An additional 56 units displayed radon concentrations between 3.2 and 4.0 pCi/L.

Those units at which radon concentrations exceeded 4.0 pCi/L were in the following locations: Ansonia, Shelton, and Westport, Connecticut; Addison and Worth, Illinois; Burlington and Randolph, Massachusetts; Watertown, New York; Dorseyville,

1 Introduction

In October 1988, Congress passed the Defense Authorization Amendments and Base Closure and Realignment Act, Public Law 100-526. This legislation provided the framework for making decisions regarding closures and realignments of military bases. In December 1988, the Defense Secretary's ad hoc Commission on Base Realignments and Closure issued its final report nominating candidate installations for closure or realignment. The Commission's recommendations, subsequently approved by Congress, affect 111 Army installations, of which 86 are to be closed. Among the installations marked for closure are 53 stand-alone military housing areas located throughout the continental United States. 1

Legislative directives require that all base closures and realignments be performed in accord with applicable provisions of the National Environmental Policy Act (NEPA). As a result, NEPA documentation is being prepared for all housing properties scheduled for closure. The Base Closure Division of the U.S. Army Toxic and Hazardous Materials Agency (USATHAMA) is responsible for addressing all environmental issues associated with the affected properties, including indoor radon concentrations. Argonne National Laboratory (ANL) has previously completed enhanced preliminary assessments on all Army housing units scheduled for closure. However, because of the particular scheduling requirements of a reliable program for monitoring indoor radon concentrations, that aspect of the property assessments has been conducted on a schedule independent of other environmental assessment activities.

This document is a report of the screening measurements of average indoor radon concentrations conducted by ANL at Army stand-alone housing properties scheduled for closure. In some instances, the term "screening measurement" implies a three-day measurement with a charcoal detector. However, when used in the context of this report, "screening measurement" reflects the protocols defined in the Army Radon Program and refers to a nominal 90-day measurement with an alpha track detector. Additional discussions of the Army Radon Program are found in Section 3.

In all, 53 Army housing properties are scheduled for closure. However, two of the properties scheduled for closure have been removed from consideration under this study. At one of those properties, Clementon Army Housing, Clementon, New Jersey, the houses

are in disrepair, with broken windows or missing doors, precluding accurate measurement of indoor radon concentrations. Houses at the second property, Wherry Army Housing, St. Louis, Missouri, have only recently been screened for radon by Army personnel. The results of those screening measurements are being made available to USATHAMA, thus making additional radon screening under the Base Closure Program unnecessary at this time.

1.1 Authority

The USATHAMA has engaged Argonne to support the Base Closure Program by assessing the environmental quality of the installations proposed for closure. Argonne has completed enhanced preliminary assessments of the properties. These assessments were conducted under the authority of the Defense Department's Installation Restoration Program (IRP); the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Public Law 91-510, also known as Superfund; the Superfund Amendments and Reauthorization Act of 1986 (SARA), Public Law 99-499; and the Defense Authorization Amendments and Base Closure and Realignment Act of 1988, Public Law 100-526. The complete list of properties for which enhanced preliminary assessment reports have been published is found in Appendix A. The reader is referred to these individual reports for additional information on the subject properties.

Authority for the study of indoor radon concentrations is also established by the Base Closure and Realignment Act of 1988. This legislation specifies that all base closures and realignments be performed in accord with applicable provisions of the NEPA. The USATHAMA has interpreted this directive to mean that all activities or conditions associated with the property that have resulted or could result in adverse impacts to environmental quality or human health must be addressed. Included in such a broad category of consideration are indoor radon concentrations, which may represent increased health risks to occupants of the houses. Finally, irrespective of the Base Closure Program, indoor radon monitoring is required by existing Army policy as outlined in the Army Radon Program.

1.2 Study Objectives and the Army Radon Program

In performing assessments at Army housing unit properties scheduled for closure, USATHAMA will identify and characterize all significant environmental conditions that exist at the properties to ensure that appropriate steps are taken to mitigate or remediate any identified adverse impacts to human health or the environment. The enhanced preliminary assessments of these Army housing properties have identified and characterized all areas requiring additional environmental evaluation and identified conditions that should be further investigated or remediated. The additional investigations are being conducted as a separate task.

The objective of this study is to implement the initial radon screening measurement directive contained in the policy memorandum of April 25, 1988, concerning radon measurement and mitigation in Army-owned or -leased structures. The Army Radon Program² comprises a Radon Measurement Strategy and a Radon Mitigation Plan, which together meet the guidelines on radon measurement and mitigation issued by the United States Environmental Protection Agency (U.S. EPA).³⁻⁶

The purpose of the Army Radon Program, as outlined originally in the policy memorandum DOD Radon Assessment and Mitigation Policy,⁷ is to identify structures both within and outside of the continental United States that are owned or leased by the Army (including Civil Works) and have indoor radon levels greater than 4 picocuries (4 x 10⁻¹² curies) per liter (pCi/L) of air. Structures having levels greater than 4 pCi/L will be modified so that radon levels are reduced to no more than 4 pCi/L. The Army Corps of Engineers (Civil Works) will adapt this program to its operations.

The Army Radon Program established three priority categories for the radon monitoring effort. Of highest priority are structures used as day-care centers, schools, hospitals, and residential areas. Of secondary priority are structures that are occupied on a 24-hour basis. All remaining permanent structures fall into the third priority category.

This ANL radon monitoring study has been designed to implement the first of three steps in the Army's radon measurement strategy, as outlined below:

- Each building will be screened initially for 90 days by using an alpha track detector located in the lowest accessible level or the basement.
 Initial screening will be performed when buildings are closed (during heating or cooling seasons) in order to obtain maximum radon concentrations.
- Buildings with an initial measurement exceeding 20 pCi/L will not be scheduled for long-term measurement, but the problem will be mitigated according to the schedule established in the Radon Mitigation Plan.
- Buildings having an initial measurement between 4 and 20 pCi/L will undergo long-term measurement for a period of 12 months. Two detectors will be used, one in the basement (when the structure contains a basement) and one in the lowest living area.

Actions taken under the Army Radon Mitigation Plan are based upon the highest radon concentration observed in the screening measurements. Anticipated mitigative actions are the following:

- Radon concentrations greater than 200 pCi/L will require immediate
 mitigative actions that may include building ventilation and/or sealing of
 cracks and other potential points of radon gas entry. If those actions do
 not reduce radon concentrations within one month, activities occurring
 within that structure will be relocated.
- Radon concentrations between 20 and 200 pCi/L will require that mitigative actions be implemented within six months.
- Radon concentrations between 8 and 20 pCi/L will require mitigative actions within 1-4 yr, depending on the levels measured.

- Radon concentrations between 4 and 8 pCi/L will require mitigative actions within 5 yr of the measurement.
- All buildings within which radon mitigative actions have been completed will be measured again for radon to assure the success of the actions.

These action levels are equivalent to action levels proposed by the U.S. EPA. It is important to note that action levels defined by both the Army and the U.S. EPA are based upon an annual average radon concentration. Furthermore, a monitoring period lasting less than one full year may introduce some intrinsic error to the estimate of annual average radon concentration. These errors are due primarily to seasonal variations in radon seepage from soils and, to a lesser extent, to the fact that the extent of natural ventilation of structures varies widely with season. Depending upon the time of year over which a short-term measurement is taken, this error may be either positive (representing a worst case condition) or negative.

The U.S. EPA has noted that 90-day measurements taken during a heating season in colder climates (or during a cooling season in warmer climates) may produce radon results that can be as much as two to four times the annual average.^{3,5} Studies completed in 1989 showed that summer radon concentrations account for approximately 40% of the annual average and that winter concentrations can be as high as 1.7 times the annual average.⁸ This difference is thought to represent not only seasonal variations in rates of radon diffusion from the earth, but also the unintended result of efforts toward energy-efficient house construction.

Despite these empirically observed seasonal variations, a measurement period lasting at least 90 days and occurring largely within a heating or cooling season is nevertheless believed to provide a reliable result that can be considered to be a worst case condition. Therefore, when the results obtained under such monitoring conditions are below levels of concern (< 4 pCi/L), year-long follow-up measurements become unnecessary, and no further mitigative actions are needed. Taking these factors into consideration, the Army's policy requires that year-long radon follow-up measurements will be conducted in structures where screening measurement results between 4 and 20 pCi/L have been obtained. Only structures having one-year measurements greater than 4 pCi/L will undergo mitigation.

In addition to follow-up measurements, the mitigative actions suggested in the Army plan generally involve sealing cracks and breaks in the foundations of the structures, thereby reducing or eliminating the routes by which radon gas can enter the structure. Mitigation may also involve providing some sort of mechanical or natural ventilation to the structure (weather permitting) to reduce indoor radon concentrations by dilution of indoor air volumes with outdoor air.

2 General Information

Concern over health risks from radon exposure has existed for over 30 years. Radon, its radioactive decay products, and its radioactive progenitors have all been extensively studied. The mechanisms of their generation and fate and the health risks resulting from exposure to these materials have been extensively documented in the scientific literature. The discussion that follows is not intended to provide a complete treatise on radon or the consequences of exposures to radon or its radioactive daughters. Instead, only a brief overview of fundamental issues surrounding radon is presented in order to establish a background from which the specific objectives and parameters of a radon monitoring study can be understood.

2.1 Sources and Properties of Radon

Radon is a colorless, odorless, tasteless gas. It is chemically inert and naturally occurring, resulting from the radioactive decay of uranium and thorium present in soils and rock. Because radon is both chemically inert and a gas under normal conditions of temperature and pressure, it moves freely once it is formed, diffusing through very small interstitial spaces in rocks and soils, dissolving in groundwater, and ultimately dispersing into the ambient air or into enclosed structures whose foundations are in contact with the earth's surface.

Uranium-238 (238U) and thorium-232 (232Th), both common, naturally occurring elements, together provide a constant source of radon gas. Radioactive decay is the process by which the nucleus of an unstable element undergoes spontaneous transformation through the release of particles and/or electromagnetic radiation (energy). The resulting element, called the radioactive daughter or progeny, may itself be unstable and undergo spontaneous transformations upon formation. The rate at which an unstable nucleus decays (its radioactivity) is measured in curies (Ci), with one curie equal to 37 billion disintegrations per second. Since the amount of radiation emitted is directly proportional to the amount of the radioactive element present, radiation levels are directly correlated to concentrations. The radioactive decay schemes for ²³⁸U and ²³²Th are displayed in Figs. 2.1 and 2.2, respectively.

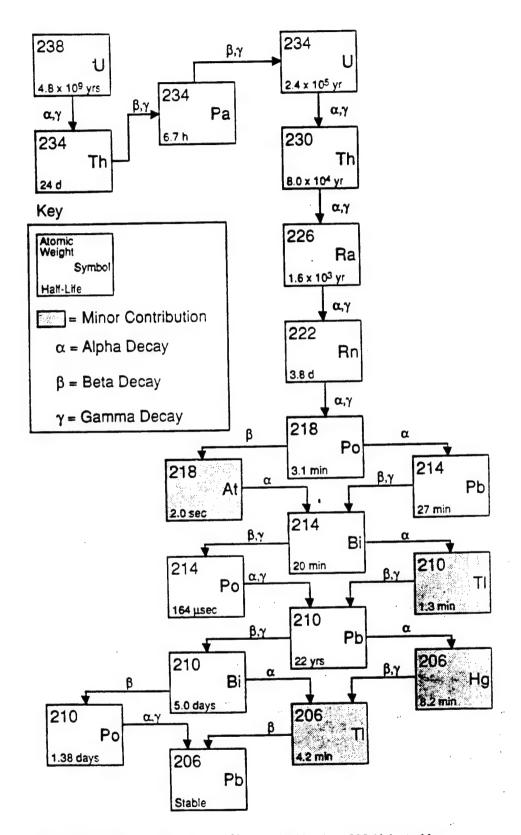


FIGURE 2.1 Radioactive Decay Scheme for Uranium-238 (Adapted from Reference 9)

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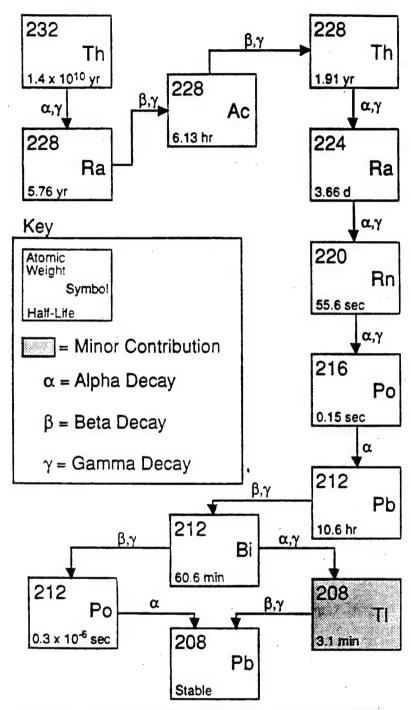


FIGURE 2.2 Radioactive Decay Scheme for Thorium-232 (Adapted from Reference 9)

Also shown in Figs. 2.1 and 2.2 are the half-lives of the elements in the decay schemes. The half-life, defined as the time required for one-half of the radioactive nuclei present to undergo radioactive decay, is of particular importance in determining the magnitude of risks from exposures to radon and its radioactive daughters. Uranium and thorium decay to two different isotopes of radon, ²²²Rn and ²²⁰Rn. (Elemental isotopes are atoms that differ only in atomic mass, because different numbers of neutrons are in the nuclei.) Radon-222, a progeny of ²³⁸U decay, is the isotope about which concern is greatest. This concern derives primarily because the half-life of ²²²Rn, 3.8 days, is sufficiently long to allow significant quantities of ²²²Rn to diffuse from the earth into buildings where it can be inhaled. By comparison, the half-life of ²²⁰Rn is only 55.6 seconds. Except for its markedly reduced potential for reaching and accumulating in indoor air spaces, ²²⁰Rn presents health risks equivalent to ²²²Rn. For simplicity, further discussions of radon will make no distinction of isotopes.

Radon is itself radioactive and undergoes spontaneous decay through the release of alpha and gamma radiation. However, in contrast to radon, the radioactive daughters thus formed (see Figs. 2.1 and 2.2) exhibit some chemical reactivity. Most will be adsorbed electrostatically onto interior building surfaces and furniture. Some, however, will attach to dust particles and remain airborne for long periods of time, thus increasing inhalation potential. The total health risk, therefore, is the result not only of radon presence, but also of the presence of respirable radon daughter products.

Relative to some other forms of radiation such as gamma or X-ray, alpha radiation produces minimal biological damage from external exposures. Internal exposures to alpha radiation, however, have been shown to produce significantly greater damage to tissues. The internal exposures to alpha radiation resulting from inhalation of radioactive radon daughters (adsorbed onto airborne dust particles) constitute the major health risks. Inhalation of gaseous radon represents an additional health risk.

2.2 General Considerations for Indoor Radon Measurements

Screening measurements of indoor radon concentrations should approximate the highest radon concentrations to which a building's occupants will be exposed. To ensure

that this fundamental objective is met, a screening measurement study generally has the following characteristics:

- Measurements should be taken in the lowest level of the building that is likely to be occupied for extended periods of time. In some instances, basement radon concentrations can be as much as four times those at higher levels in the structure. Therefore, all basements except those with earthen floors or walls are considered by the Army to be the lowest living area (even if they are not currently being used in that way) and should be monitored. Where basements do not meet the definition of lowest living area, the next lowest occupied level should be used.
- Ideally, measurements should be made under "closed-house" conditions. To establish a true closed-house condition is virtually impossible in a practical sense, unless the building is unoccupied during the measurement period. A close approximation to closed-house conditions results when the measurement is conducted during periods when artificial air conditioning (heating or cooling) is expected to be operative and natural ventilation of the structure is minimal (i.e., doors and windows are likely to be kept shut, and internal-external air exchange systems such as attic fans are inoperative). Air conditioning systems (both heating and cooling) that recirculate internal air can be operated, however, without detracting from closed-house conditions.
- Depending on the instrumentation used, measurement periods can vary
 from one day to one year. Although past studies have established both
 diurnal and annual variations in radon diffusion rates, most
 instrumentation has been calibrated so that its use over its
 recommended time period results in a reliable screening level that can
 serve as a basis for decisions regarding appropriate or necessary
 mitigative actions.
- In addition to being in the lowest living area, the monitor should be placed away from drafts, ventilation ducts, windows, fireplaces, or other areas where artificial convection currents and/or high humidity are present (e.g., in kitchens and bathrooms). In addition, monitoring

instruments should not be placed on or near floors or outside walls where convection air currents are strongest.

2.3 Selection of Radon Monitoring Instrumentation

A number of different instruments are currently available for radon screening measurements. The U.S. EPA has developed guidelines for the following seven radon measurement devices:

- Continuous radon monitor (CRM)
- Alpha track detector (ATD)
- Electret ion chamber (EIC)
- · Charcoal canister
- Charcoal liquid scintillation device (CLS)
- Evacuated scintillation cell
- Pump/collapsable bag device
- · Grab sampling

The reader is referred to U.S. EPA's Interim Protocols For Screening and Follow-Up Radon and Radon Decay Product Measurements⁵ for information on the exact operating mechanisms of each of these instruments and a comparison of their strengths and weaknesses. In general, all of the above instruments are designed to determine radon concentrations by measuring radiations resulting from the radioactive decay of radon and/or its daughter products. Most devices collect radon in a sensitive volume and then measure the radiation from that radon and also from its daughters produced within the sensitive volume. The CRM, ATD, EID, and scintillation cell devices respond to alpha radiation from 222Rn, 218Po, and 214Po or from 220Rn, 216Po, and 212Po. However, none of the instruments can differentiate the sources of alpha radiation impinging on its detectors. Thus, these instruments can, in theory, measure alpha radiation from any alpha source. In practice, however, only those radioactive species with sufficient mobility and half-lives to reach the instrument's detector will be measured. The alpha radiation measured, therefore, derives primarily from the ²²²Rn decay chain, and the majority of the total alpha radiation

derives from decays of the daughter products that are formed in situ (i.e., on or near the instrument's detector) or that are carried to the detector adsorbed on airborne dust particles.

The charcoal canister and the CLS devices respond to beta and/or gamma radiation from the isotopes of Pb and Bi in the decay chains. The ambient radon is adsorbed on the charcoal, and the daughters produced in situ are subsequently measured. In order to discriminate between radon and daughter products that have already been formed and are present in ambient air, most instruments precede the radiation detection device with a particulate filter that is intended to eliminate the contributions from these airborne radioactive particulates.

The U.S. EPA has not specifically endorsed any particular type of radon measurement device. Instead, it has developed protocols for the use of each of the above instruments. In so doing, the U.S. EPA has indicated that any of these instruments is capable of providing reliable screening measurement results if it is used in accord with the applicable protocol. The U.S. EPA acknowledges, however, that the uncertainties of results will vary between instruments.

The selection of any of the above devices for screening measurements depends not only on such factors as the instrument's accuracy and precision and the reproducibility of results, but also on such practical parameters as cost; availability; ease of use; duration of sample collection; interferences; and the speed, accuracy, and cost of analysis.

Aside from the above instruments, other types of monitors take a fundamentally different approach in determining radon concentrations. Chief among these instruments is the radon progeny integrated sampling unit (RPISU). This is an active, rather than passive, monitor. It actively collects known volumes of indoor air and does not rely on natural air convection in equilibrium conditions to deliver radon molecules to the sampling detector. The RPISU is also unique because it measures radiation only from the radioactive daughters of radon collected on a filter. This gives the instrument inherently greater accuracy of measurement. The widespread use of such an instrument, however, is not practical because of its high cost and also because its proper use requires a skilled operator. The RPISU is, however, an attractive option for follow-up measurements not only because of its accuracy, but also because a representative sample can be gathered in as little as 100 hr of continuous operation. Furthermore, over such a short time period, establishing

and maintaining closed-house conditions is not overly burdensome for the structure's occupants.

Continuous radon monitors and continuous working-level monitors can also be used for screening or follow-up measurements. Continuous working-level monitors offer a particular advantage in that, with the appropriate detector, the monitor can measure all or some of the radon daughters adsorbed onto airborne, respirable dust particles. As with the RPISU, however, cost argues against widespread use of these monitors. However, drawing indoor air continuously and actively into the sampling detector allows shortening of the period necessary for representative sampling, making these monitors suited for follow-up measurements done, preferably, under closed-house conditions. In addition, measurements can be made in time intervals as small as 1 hr and stored for later processing, thus allowing variations in radon and radon daughter concentrations with time to be precisely determined.

3 Study Design and Sampling and Analysis Protocols

3.1 General Characteristics of the Monitoring Program

As noted earlier, this monitoring program is intended to satisfy the requirements of screening measurement strategies in the Army Radon Monitoring Program. Therefore, the following fundamental parameters of this monitoring program were established at the onset:

- Alpha track detectors (ATDs) will be used. Since ATDs have been used extensively in other Army radon monitoring efforts, the results from this study can be compared directly with those other results.
 Such comparisons are essential to support priority decisions in implementing mitigative actions throughout the Army's properties.
- Alpha track detectors will be purchased from Tech/Ops Landauer, Inc.,
 the vendor supplying detectors for other Army radon monitoring
 activities. Using detectors from the same supplier and assuming some
 regularity in production eliminates concerns about differing detector
 sensitivity and responsiveness and makes results from this study
 directly comparable to results obtained in other Army radon monitoring
 efforts.
- Detectors will be placed in the lowest inhabitable level of each structure (i.e., basements, if those areas contain or could contain finished living spaces).
- Each individual housing structure (a first-priority structure as defined in the Army Radon Monitoring Program) will receive a detector.
- For multiunit structures, each individual unit will receive a detector.
- The monitoring will be continuous for a minimum of 90 days.

- To the extent that the schedule for base closures allows, monitoring will extend over a period when closed-house conditions can be expected to exist, preferably during the winter months.
- Controls, "spikes," and field replicate samples will be used for quality control.
- The results and further actions recommended will be compatible with the action levels and directives contained in the Army Radon Program.

Additional program parameters and logistic decisions were selected by ANL in collaboration with USATHAMA and representatives from the United States Army Environmental Hygiene Agency (USAEHA). These program decisions and logistic arrangements are discussed in the following sections.

3.2 Quality Control Procedures

Quality control activities include the use of controls, field replicates, and known standards ("spikes"). In general, known standards are useful in determining the accuracy of detector analyses, controls provide insight into possible extraneous sources of alpha radiation encountered by the detector during storage or transport to the analytical laboratory, and field replicates provide some measure of the precision of both the detector's responsiveness and the analytical service. Additional actions were taken to ensure the randomness of monitor distribution. Each of these activities is discussed more completely below.

Controls

An additional 50 monitors were randomly selected to serve as controls. These monitors were removed from their foil envelopes and immediately sealed. At least five such controls were randomly included in each batch of monitors shipped for analysis. (See Table 3.1 for characteristics of batches of detectors sent to Tech/Ops Landauer for analyses.) Fictitious dates were added to the control detectors to make them indistinguishable from placed detectors.

Batch No.	Detectors Sent	Delivery Date	No. of Controls	No. of Spikes	Analytical Process Nos.
1	414	01/26/90	15	15	A06675, A06685
2	347	01/30/90	15	15	A06712, A06719
3	89	02/21/90	5	5	A06967
4	49	03/08/90	5	6	A07161, A07182
5	38	03/21/90	5	5	A07358

Field Replicates

Standard random number tables were used by field personnel to select locations where field replicates would be deployed. Each field team was assigned a single-digit number. When that number matched the last digit of the next random number in the table, the current location was given a second monitor, which was placed immediately beside the first monitor. This method of selection guaranteed that field replicates would be placed in at least 10% of the housing units sampled.

Known Standards (Spikes)

Fifty monitors were selected at random from the initial inventory to serve as known standards or spikes. A description of the procedures used to develop these spikes appears in Section 3.6.

As an additional quality control check, 30 unopened detectors (3% of the total number sampled) were selected randomly from the initial detector inventory and delivered to Vail Research and Technology Corporation, Alexandria, Virginia, the quality control contractor for Army radon monitoring activities. These detectors were then forwarded to the U.S. EPA's Radiation Laboratory for independent spiking. These 30 detectors were spiked to different levels of exposure by varying the time spent in the radon chamber. Irrespective of duration, however, the U.S. EPA spiking was done in a manner identical to the methodology described in Section 3.6. After spiking, the detectors and their calculated exposures were returned to ANL for random incorporation with placed detectors and

delivery to Tech/Ops Landauer for analyses. At the time of this report's publication, analytical results for these 30 detectors were not yet available.

Randomness

Steps were taken to ensure randomness throughout the monitoring program. Before deployment, the initial inventory of monitors was mixed so that a numerical sequence of detectors or a correlation between detector numbers and properties could not be established. Detectors selected to serve as controls or spikes were also selected randomly from the total inventory before deployment. The ANL field teams further mixed all monitors assigned to them before deployment. Random number tables were used by the field teams to select units receiving field replicate detectors. Returned detectors were batched before delivery for analyses. Each batch contained representative monitors from each property surveyed. (Later batches submitted, where all or most of the detectors from a given property had already been submitted, did not necessarily represent the complete array of properties.) In addition, each batch contained at least five spiked detectors and at least five controls. Fictitious start and end dates were added for the spikes and controls to make them indistinguishable from other detectors.

3.3 Detector Deployment

Four two-person teams of ANL investigators deployed detectors in each house being monitored. Deployment occurred during the period September 5-15, 1989. Prior to detector deployment, USATHAMA distributed a radon fact sheet and sample information letter to all affected Directorates of Engineering and Housing (DEH) offices. (DEH offices are responsible for general maintenance of stand-alone housing areas located within their geographic areas of control.) The DEH offices were asked to distribute the fact sheet and information letter to all individuals occupying houses scheduled for monitoring. Additional copies of the fact sheet were distributed to house occupants by ANL investigators upon request. A copy of the informational materials distributed by USATHAMA is found in Appendix B.

The following protocols were established for radon detector deployment:

- Whenever possible, DEH personnel accompanied ANL investigators during initial detector deployment. The DEH presence was essential for access to unoccupied houses.
- A field data sheet was completed for each detector deployed. Appendix
 C contains a copy of that field data sheet.
- Along with the detector, ANL investigators left a stamped, self-addressed ANL mailing envelope, a gold foil seal with which to seal the detector at the end of the monitoring period, and printed instructions for returning the detector to ANL. A copy of the instruction sheet for returning detectors is included in Appendix D.
- Ideally, ANL investigators personally contacted house occupants, explained the program as necessary, deployed the detector, and left supporting materials for the detector's eventual return to ANL. However, when the occupants were not at home or the house was unoccupied, the following modifications to this procedure were established. At the ANL investigator's discretion, after the third unsuccessful attempt to find the house occupant at home, the investigator may have chosen to leave a detector and other related materials with a neighbor who had agreed to deliver the detector to the house occupant upon his/her return. Alternatively, the detector and materials would have been left with representatives of the appropriate DEH for later deployment. These alternatives were followed for unoccupied houses in instances where DEH personnel did not accompany ANL personnel during initial deployment. When DEH personnel were present, they provided access to vacant houses so that ANL investigators could deploy the detectors.

A number of different house styles are represented in the 51 properties monitored. "Capehart" or "MCA" houses are found at 47 of the 51 properties. In most instances, those properties are composed exclusively of Capehart or MCA houses, although at some properties both Capehart and MCA are found. Capehart and MCA houses are very similar

in design and size. Both are one-story wood frame construction atop a poured concrete slab. Both contain approximately 1300-1600 ft² of finished living space. In these houses, detectors were preferably placed on dressers in master bedrooms. Alternatively, some detectors were placed in living rooms. When a house was unoccupied, the detector was placed on a kitchen counter to keep it off the foundation. (Since the kitchen was not in use, placement of the detector in this room was acceptable.) Field replicate samples were placed beside each other.

The remaining four properties contain multiplexes or apartment buildings. Multiplex houses are of two-story, wood frame construction. Those at one property have brick veneers. Although some of these structures have basements, none of the basements contain finished living space. In these houses, detectors were placed preferably on dressers in bedrooms located on the ground floor. No detectors were placed in the upper levels of the multilevel structures. Except for field replicates, each individual unit received only one detector. One property, Manhattan Beach Army Housing, Brooklyn, New York, contained full masonry (brick) apartment buildings. As with the multiplex structures, each individual unit received one detector, placed in ground floor bedrooms or living rooms. Again, except for field replicate samples, each unit received only one detector. No detectors were placed in upper levels of the apartment buildings. Field replicate detectors were always placed side by side.

The columns for remarks found in the tables in Appendixes E and F provide information on the style of house and placement of each detector.

3.4 Detector Recovery

As indicated above, the monitoring program originally provided for the individual house occupant to seal the detector at the end of the 90-day monitoring period, add the ending date to the detector label, and return the detector to ANL in the stamped, self-addressed envelope provided. For unoccupied houses, appropriate DEH officials agreed to retrieve the detectors and forward them to ANL. In the majority of instances, this

procedure was followed. However, when detectors did not return within the anticipated period, ANL used one or more of the following methods for retrieving the detectors:

- · Direct contact with the house occupant
- Contact with the housing property's senior occupant, soliciting his/her assistance in reminding house occupants to return delinquent detectors
- Contact with the respective DEH office, soliciting its assistance in retrieving delinquent detectors, especially those deployed in unoccupied houses
- Providing a list of outstanding detectors to the ANL subcontractor currently performing environmental testing and investigations at the housing properties, soliciting his/her assistance in reminding occupants with delinquent detectors to return them to ANL

Despite ANL's efforts to retrieve delinquent detectors and the assistance provided by USATHAMA, a number are still outstanding as this report is written. Detectors deployed by ANL but not returned for analysis are identified as "not returned [NR]." Detectors left with DEH personnel for deployment in unoccupied houses but not returned for analysis are identified as "no data [ND]." Although a number of detectors are still outstanding, this report is being issued as a final report. Efforts to retrieve outstanding detectors are continuing. When the outstanding detectors are finally received and analyzed, tabulated data will be revised and delivered to USATHAMA as addenda to this report. Allowing detectors to continue operating beyond the nominal 90-day monitoring period will not invalidate data. If anything, data will exhibit a more accurate approximation of the annualized radon concentration. However, these data are needed as soon as possible to allow any necessary mitigation actions at those locations to proceed on a schedule compatible with the overall base closure schedule.

3.5 Circumstantial Monitoring Information

Appendix E provides information regarding the circumstances under which each detector was exposed. Information is arranged alphabetically by state, then again

alphabetically by property name within each state. For each detector deployed, the following information is displayed: house address, unit number (the same as the house address for single-family structures), the occupant (at the start of the monitoring period), the start and end dates of the monitoring period (as read from the detector label), the date the detector was received back at ANL after the monitoring period ended, and the date the detector was sent for analysis. In addition, a column for remarks displays unusual or abnormal circumstances associated with each detector and additional, more specific information on the type of structure and placement within each house. Abnormal circumstances noted among remarks include detectors received without start or end dates or without the foil seal properly affixed. Section 4.6 provides additional information about development of circumstantial data and assumptions applied to the data base.

3.6 Calibration of Spiked Sample Detectors

Fifty detectors were randomly selected from the initial detector inventory to serve as spiked samples. These detectors were subjected to a known radon concentration for an exact period of time, thus allowing the calculation of total radon exposure. Fictitious dates were applied to these detectors, and some of them were randomly intermixed with each batch of detectors delivered to the analytical laboratory for analysis. Analytical results (and their standard deviations) for the spiked detectors are tabulated in Section 4.

The specific procedure by which the spiked detectors were generated is outlined in the steps below:

- A standard glove box, made of molded plastic and with an internal volume of 8.10 ft³, was converted for use as a steady-state radon chamber. Supporting equipment is shown schematically in Fig. 3.1.
- Room air is drawn through a diaphragm-and-piston air pump (K.N.F. Neuberger, Inc., Princeton, New Jersey) with a rated maximum flow rate of 50 L/min.
- Room air is then pumped through a calcium sulfate drying tube to remove excess moisture.

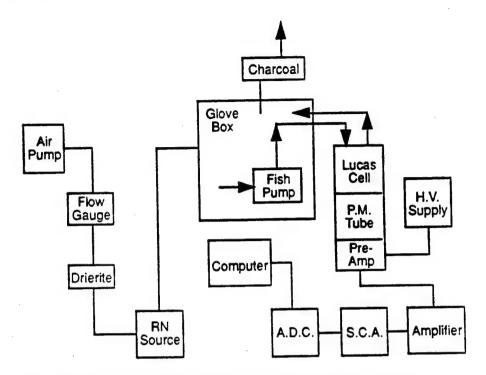


FIGURE 3.1 Schematic Diagram of Argonne's Radon Spiking Chamber

- Dried room air is passed through a standard radon source (Model RN-1025, Pylon Electronic Development Co., Ltd., Ottawa, Ontario, Canada). Radon-222 produced by decay of ²²⁶Ra enclosed in the radon source was entrained in the air stream being delivered to the glove box.
- A small pump located inside the glove box (Model Whisper 400, Second Nature Co., Fort Lee, New Jersey) operating at 0.8 L/min, circulates the radon-enriched air inside the glove box and delivers an equilibrated air stream to a standard scintillation counter (a Lucas cell). After passing through the Lucas cell, the air stream is returned to the glove box to maintain a steady-state radon concentration. To maintain steady-state pressures within the glove box, the box is vented to the atmosphere through a charcoal filter.
- The glass and quartz Lucas cell contains a thin film of zinc sulfide. The input to the cell is equipped with a 0.8-μm micropore filter that removes any solid radon daughters from the air stream. Alpha

radiation from radon decay impinges upon the zinc sulfide. The resulting scintillation is measured by a photomultiplier tube that converts scintillation light pulses to current pulses by means of a photo cathode. 10

- Current pulses are amplified and delivered to a single-channel analyzer, where they are converted to pulses of fixed height and width.
- A data acquisition and control interface module (Model STA-U, MetraByte Corporation, Taunton, Massachusetts) converts the fixed current pulse into digital data, which are then delivered to a Hewlett Packard Vectra CS computer. Data are stored as a pulse rate proportional to radon concentration. The pulses are stored and accumulated at 60-min intervals, resulting in computation of hourly count rates over the entire period of exposure, 96 hr.
- Random grab samples were taken during the four-day exposure to check the radon concentration. A calibration factor was established by using methodologies established by Rundo et al.¹¹ The calibration factor is determined by dividing the average flow in counts per minute (cpm) by the radon concentration (pCi/L): The calibration factor for this system was calculated at 0.62 ± 0.01 cpm/pCi/L.
- By applying the calibration factor, the average radon concentration within the glove box over the four-day exposure period was calculated at 257.64 ± 23.70 pCi/L, resulting in a four-day calculated exposure of 1030.56 ± 94.81 (pCi/L) days.
- Air flows were adjusted to maintain a slight positive pressure within the glove box. After an 8-hr equilibration period, 50 detectors were introduced and placed in a tight cluster on the floor of the glove box, well away from corners or walls. Exposures continued at steady-state conditions for 96 hr (11:25 a.m. on 12/11/89 through 11:25 a.m. on 12/15/89).

 After exposures, the 50 detectors were allowed to remain unsealed in the room air to allow reequilibration with room conditions, and then gold foil seals were applied. Fictitious dates were added to the labels to make these detectors indistinguishable from other detectors.

3.7 Quality Control Aspects of Detector Analyses

The analytical laboratory responsible for analyses of the radon detectors used in this study has established its own analytical procedures and quality control protocols for alpha track detector production, calibration, and analysis. The quality control protocols applicable to detector analysis are contained in Chapter V of the procedures manual developed by Tech/Ops Landauer.¹² The important analytical quality controls practiced by Tech/Ops Landauer are summarized below:

- Primary calibrations of radon monitoring systems are checked at least three times per year, with instruments whose calibrations can be related to the National Institute of Standards and Technology. Primary calibrations will be changed only when two consecutive checks reveal a shift of more than 15% at the 95% confidence level or one check reveals a shift of 25% at the 95% confidence level.
- Samples of alpha track detectors from each manufacturing batch are subjected to secondary calibration.
- Ancillary electronic equipment and temperature gauges are checked monthly.
- All detectors revealing radon concentrations greater than 20 pCi/L are reevaluated prior to the reporting of results. These reevaluations are performed by a different analyst using a different analytical machine.
- Reevaluations are performed on a random 10% of the detectors in each analytical processing group. Agreement of two evaluations results when both readings are within the range predicted by the Poisson distribution plus 5% at the 95% confidence level.

3.8 Special Case: Patrick Henry Army Housing, Newport News, Virginia

It was discovered at the time of initial detector deployment that the houses at the Patrick Henry Army Housing property had already been monitored for radon. That monitoring effort was undertaken by DEH personnel from Fort Eustis under Army directives completely independent of the Base Closure Program. It was decided, nevertheless, to deploy ANL detectors as initially planned. Arrangements were made for Fort Eustis personnel to assist in the recovery of the monitors if necessary.

It was later learned that Fort Eustis personnel recovered five detectors placed by ANL. Instead of being returned to ANL, however, those detectors were submitted to Tech/Ops Landauer for analyses along with detectors placed by Fort Eustis personnel at other locations. Reported results for both Fort Eustis and the five ANL detectors were later forwarded to ANL by Fort Eustis personnel. The ANL field data sheets left with ANL detectors were completed by Fort Eustis personnel and also forwarded to ANL. These materials appear in Appendix G. [Note: only the one data sheet (#10) containing results for ANL detectors is included.]

Conversations with the Fort Eustis personnel responsible for the radon monitoring revealed that the ANL detectors retrieved accidentally from Patrick Henry housing received appropriate treatment and handling and that nothing that had occurred would have invalidated the analytical results for those detectors. Therefore, results for the five detectors retrieved by Fort Eustis personnel have been incorporated into the data base without amendment. However, standard deviations for these detectors are not reported.

4 Results and Discussion

4.1 Reported Results

Detectors returned to ANL were delivered in five batches to Tech/Ops Landauer for analyses. Controls and spikes were added to each batch. The composition of these batches and the corresponding processing batch numbers assigned by Tech/Ops Landauer are listed in Table 3.1. Whenever possible, each batch contained no more than one-third of all detectors from a given property and represented the full array of properties being studied.

Analytical results as reported by Tech/Ops Landauer appear in Appendix H. The standard deviations reported are associated with the measured exposures and represent errors in counting tracks made on the detector surface by alpha radiation.

4.2 Results for Controls and Spikes

All of the original 50 detectors spiked by ANL have been analyzed. The analytical results for spikes have been identified in the Tech/Ops Landauer reports and are tabulated separately in Table 4.1. All 50 detectors originally reserved as controls have been analyzed. In all cases, the measured exposure was at the detection limit of an integrated exposure level of 30 (pCi/L) days.

4.3 Results for Placed Detectors

Radon concentrations for the single-family houses and for the units or apartments are tabulated in Appendix F. These tables are arranged alphabetically by state and, within each state, alphabetically by property and additionally by street address. Thus, the order of entries for each property is identical with the display of circumstantial information for that property found in Appendix E. The columns containing remarks for each property in Appendix E are identical with the remarks columns for those properties in Appendix F. Summary information reported in the Appendix F tables is property specific.

TABLE 4.1 Analytical Values for Spiked Radon Detectors [Calculated Exposure: $1030.56 \pm 94.81 \text{ (pCi/L)}$ days (at two sigma error)]^a

Detector . No.	Measured Exposure	Standard Deviation (%)	Tech/Ops Analytical Process No.	Detector No.	Measured Exposure	Standard Deviation (%)	Tech/Ops Analytical Process No
1642289	1040.7	4.1	A06719	1645905	953.4	4.3	A07161
1642291	1044.7	4.1	A07161	1645907	1041.3	4.3	A06967
1642293	1005.0	4.3	A06967	1645909	863.7	4.5	A06719
1642294	1102.0	4.0	A06712	1645912	1120.6	4.0	A06967
1642296	1051.2	4.1	A06685	1645913	1074.0	4.0	A06712
1642297	1060.0	4.0	A06712	1645914	1000.9	4.2	A07161
1642303	1034.8	4.2	A06967	1645915	1054.7	4.0	A06712
16423 06	1014.4	4.1	A06719	1645916	1079.2	4.0	A06685
1642310	1116.0	3.9	A06685	1645917	1007.4	4.1	A06712
1643414	1119.5	3.9	A06685	1645921	1058.2	4.0	A06685
1643415	1061.7	4.0	A06719	1645924	945.7	4.3	A07358
1643416	1079.6	4.1	A06675	1645927	946.0	4.3	A07161
1643425	984.6	4.2	A06712	1646026	1023.2	4.1	A06712
1643426	1023.3	4.1	A07358	1646027	1090.7	4.1	A06675
1643427	1074.0	4.0	A06719	1646028	1038.9	4.1	A06685
1643430	1121.3	3.9	A06685	1646029	1063.5	4.0	A06712
1643432	1109.4	4.1	A06967	1646033	873.4	4.5	A07358
1643434	1100.3	4.1	A06685	1646034	991.6	4.2	A06719
1643442	1005.6	4.1	A06685	1646039	1051.6	4.2	A06675
1643449	1016.1	4.2	A07358	1646040	1070.5	4.0	A06685
1644096	1096.8	4.0	A06719	1646041	954.7	4.3	A07358
1645421	1035.4	4.1	A06712	1648283	997.2	4.2	A07161
1645433	1079.2	4.0	A06719				
1645436	1095.0	4.0	A06685				
1645437	1024.9	4.1	A06685				
1645897	1003.9	4.1	A06712				
1645901	1028.4	4.1	A06712				
1645903	1044.2	4.1	A06719		•		

^{*}Summary:

Average of Tech/Ops Landauer analyses: 1040.0 ± 114.6 (pCi/L) days (at two sigma error) Maximum measured value: 1121.3 (pCi/L) days
Minimum measured value: 863.7 (pCi/L) days

The results obtained for each structure or unit are graphically displayed in Appendix I. Property site plans are arranged in alphabetic order by state, then by property name. For each house or unit, the seven-digit serial number for the detector is displayed. The number appearing in brackets behind the serial number is the radon concentration expressed in pCi/L.

4.4 Assumptions and Irregularities

- When the detectors were not initially deployed by ANL field teams but were placed by the house occupant or a DEH representative, start dates were sometimes missing from the detector labels. Start dates indicated on the field data sheets completed by the house occupants or DEH personnel and returned with the detectors were inserted into the data base. In cases where a start date was not included in the data sheet or data sheets were not returned, a start date was added that coincided with the start dates for other monitors at the property. In all such cases, a comment was added to the remarks column to indicate that the sampling duration was estimated. In addition, detectors deployed by the house occupant or a DEH representative were identified in the remarks field.
- When a detector was returned to ANL without an end date indicated on the label, an end date was inserted that corresponded to the received date minus three days (the assumed first-class mail delivery time). All such cases were marked with a comment in the remarks field to indicate that the sampling duration was estimated.
- A number of detectors were returned without the seal properly affixed.
 In most instances, however, the detector was returned in its original foil pouch. A seal was affixed when the detector was again in ANL's possession. These detectors are identified by a comment in the remarks field.
- Eighteen "orphan" detectors remain. These are detectors for which some unreconciled discrepancy in supporting documentation prevents

assignment to a specific housing unit. These detectors were none-theless analyzed. The results are given in Table 4.2. Except in one instance, none of these detectors shows a radon concentration above the action level of 4 pCi/L.

 Because some house occupants moved, a number of detectors were returned before the nominal 90-day monitoring period was completed.
 Although results from monitoring periods less than 90 days may not be representative of annual averages, the results are nevertheless valid representations of radon concentrations during the monitoring period.

TABLE 4.2 Results for Orphan Detectors

Detector No.	Exposure [(pCi/L) days]	Concentration (pCi/L)	Standard Deviation (%)
1436022	122.1	NDRa	NRb
1436062	120.3	NDR	NR
1436070	90.5	NDR	NR
1642326	111.8	1.1	11.7
1643679	276.6	3.0	7.7
1644322	183.7	NDR	9.4
1645789	187.2	NDR	9.3 .
1645803	267.8	1.9	7.9
1646460	30.0	0.7	NR
1648244	522.4	3.5	5.9
1646448	179.6	2.0	9.8
1645791	583.9	6.3	5.6
1642321	97.6	1.7	12.8
1645812	116.2	NDR	11.9
1643692	62.2	0.7.	15.4
1645796	118.1	1.2	11.8
1647551	97.6	1.1	12.8
1643431	131.1	1.1	11.3

^{*}NDR, no dates reported; concentration cannot be determined.

bNR, not reported.

The results for these detectors are listed in the appropriate location in Appendix F. These detectors are identified by a comment in the remarks column.

4.5 Data Interpretation

The precision and accuracy of the radon exposures and concentrations determined by the alpha track detectors depend upon several parameters that are not fully under the control of the investigators. The precision of the radon determination by any detector is affected by the track density, defined as tracks per unit area under observation. The precisions of the individual results have been estimated by Tech/Ops Landauer and are included as the standard deviations in Appendix F. On the other hand, the overall accuracy of radon determination is affected by the additional parameters listed below.

• Uncertainty in calibration parameter

This uncertainty refers to the error in determining the number of tracks recorded for known exposures. Results for the spiked samples submitted by ANL along with the unknowns indicate that the error is about 5% for detectors exposed to 1000 (pCi/L) days. The calibration parameter used by Tech/Ops Landauer is assumed to be known with an accuracy of 10% or better (at two sigma).

• Unknown starting dates

Some detectors were received with unknown starting dates. In all instances where ANL staff deployed the detectors, the starting date is known. However, some detectors were deployed by the house occupant or DEH personnel, and the starting dates were sometimes not recorded. In most of these cases, the starting date could be estimated with an uncertainty of about 1-2 days. For detectors exposed for a nominal 90-day monitoring period, this estimate would introduce an uncertainty of about 2% in the resulting calculated radon concentrations.

· Estimated ending dates

Some detectors were received with no end date recorded. In all these cases, it was assumed that the occupants were diligent in mailing the detectors soon after they were sealed. The time between mailing and receipt was assumed to be three days (nominal time for first-class mail as quoted by the postmaster at Lemont, Illinois). Thus, ending dates were assigned relative to the date on which the detector was received back at Argonne. Again, in a nominal 90-day monitoring period, an uncertainty of about 2-3% may be assumed for results derived under these circumstances.

Detectors returned without seals

The mailing envelopes (manila with plastic bubble liners) are assumed to have provided the necessary protection against additional extraneous alpha radiation exposure to the detectors during transit. The error from this source could be estimated by assuming that any additional exposure occurred during the three days between mailing and receipt. Thus, the error is about 3% for a 90-day exposure.

• Variations in replicate pairs

Seventy pairs of detectors were used as duplicates to estimate the reproducibility of the detector responses. The replicate detectors were placed side by side in the housing units and thus were assumed to have been exposed to the same concentration of radon. Thus, any variation observed may be taken as a true indicator of the reproducibility of the measurement. The results for the duplicate detectors are shown in Appendix J. A number of the 70 pairs of field replicates were not returned, and in some instances the detectors in the pair were exposed for different durations. Aside from these situations, 56 pairs are believed to have received the same integrated exposures.

The error in the individual measurements of a pair of detectors is calculated as the percent deviation from the mean. The average of the deviations for all pairs is 10.5%. The deviation ranges from a minimum of zero to a maximum of 45.6%, with 37 of the 56 replicate pairs (66%) showing less than 10.5% variation from their respective

mean exposures and 49 of the 56 replicate pairs (88%) displaying variations from their respective mean exposures of less than 21%. Taken at face value, the average of the mean deviation is 21.4% (at the two sigma level, i.e., 95% confidence), with an equally large uncertainty in determining this number.

In summary, of all the sources of error noted above, the variation between observed and calculated exposures for the spiked detectors represents the greatest source of uncertainty. By comparison, errors introduced as a result of starting and ending date approximations will have negligible effects on results at exposure levels of 4 pCi/L and monitoring periods of at least 90 days.

4.6 Unreturned Detectors

At the time of this report's production, 299 of the original 1117 detectors (26%) are yet to be returned. Detector status for each property is displayed in Table 4.3.

Efforts are continuing to retrieve all of the detectors that were deployed, but some detectors will probably never be returned. (In fact, ANL has already contacted a number of house occupants who have indicated that they have lost their detectors.) It is therefore appropriate to develop a strategy for dealing with missing data.

The most straightforward response to missing data is to resample those houses (or units) for which no data are available. Except for the different time of year and possibly differences in seasonal radon concentrations, the original sampling conditions can generally be duplicated, so that the results obtained in the new sampling effort will be immediately comparable to results obtained earlier in nearby houses.

As an alternative to the above strategy, some sort of selection criteria may be followed to monitor only those houses that are likely to yield radon concentrations near or above the action limits. In several instances, other data available from that property may provide the necessary basis to waive repeated sampling, because the expected results are

TABLE 4.3 Overall Detector Status

Property	No.	No.	No.	Percent
	Placed	Returned	Outstanding	Returned
Ansonia, Conn. East Windsor, Conn. Fairfield, Conn. Manchester, Conn.	17	15	2	88
	17	14	3	82
	30	26	4	87
	33	31	2	94
Middletown, Conn.	17	17	0	100
Milford, Conn.	18	17	1	94
New Britain, Conn.	17	15	2	88
Orange, Conn.	24	20	4	83
Plainville, Conn.	36	18	18	50
Portland, Conn.	16	16	0	100
Shelton, Conn.	17	16	1	94
Westport, Conn.	17	14	2	82
Addison, III.	13	11	2	85
Worth, III.	13	11	2	85
Croom, Md.	13	9	4	69
Bedford, Mass.	19	16	3	84
Beverly, Mass.	17	9	8	53
Burlington, Mass.	13	5	8	38
Hull, Mass.	8	5	3	63
Nahant, Mass.	13	6	7	46
Randolph, Mass.	18	12 ·	5	71
Swansea, Mass.	16	5	11	31
Topsfield, Mass.	16	12	4	75
Wakefield, Mass.	12	10	2	83
Franklin Lakes, N.J.	26	14	12	54
Holmdel, N.J.	13	11	2	85
Livingston, N.J.	35	22	13	63
Old Bridge, N.J.	13	8	5	62
Dry Hill, N.Y.	28	21	7	75
Manhattan Beach, N.Y.	76	31	45	41
Rocky Point, N.Y.	17	10	7	59
Spring Valley, N.Y.	13	9	4	69
Tappan, N.Y.	39	25	14	64
Coraopolis 71C, Penn.	5	2	3	40
Coraopolis 71L, Penn.	8	7	1	88
Dorseyville, Penn.	16	11	5	69
Elizabeth, Penn.	12	7	5	58
Elrama, Penn.	16	13	3	81
Finleyville, Penn.	12	10	2	83
Herminie, Penn.	17	15	2	88

TABLE 4.3 (Cont'd)

Property	No. Placed	No. Returned	No. Outstanding	Percent Returned
Irwin, Penn.	17	10	7	59
Monroeville, Penn.	12	11	1	92
Rural Ridge, Penn.	12	8	4	67
Davisville, R.I.	63	42	21	67
Slatersville, R.I.	19	17	2	89
Manassas, Va.	10	4	6	40
Patrick Henry, Va.	15	6	9	40
Woodbridge, Va.	11	8	3	73
Midway, Wash.	34	25	9	74
Youngs Lake, Wash.	31	26	5	84
Sun Prairie, Wisc.	118	115	3	97

likely to be well below the action limits. For example, it may be appropriate to waive resampling houses when all of the following conditions are satisfied:

- Missing data represent no more than 25% of the total number of inhabited structures at that property.
- The available data for that property are within a narrow range of radon concentration values (no single value varies by more than 25% from the mean value for that property).
- None of the available radon values for that property is above 80% of the action level of 4.0 pCi/L (i.e., above 3.2 pCi/L).

When all of the above conditions are met, the missing data would probably have yielded radon concentrations well below the action level. Therefore, those locations need not be monitored again.

5 Conclusions

The salient features of this radon monitoring program are summarized in Table 5.1. In all, 61 detectors placed in 55 locations (six replicate pairs) exhibited significant radon concentrations (≥ 4 pCi/L). Those specific detectors, their measured radon concentrations, and the detector locations are listed in Table 5.2. This table is arranged alphabetically by state and city or township.

Army policy regarding radon requires that locations where screening measurements are at or above 4.0 pCi/L receive follow-up measurements. Fifty-five locations are affected by this requirement.

TABLE 5.1 Summary Information

Total number of structures monitored	892
Total number of detectors placed	1117
Number of detectors returned	818
Number of detectors outstanding or lost	299
Total number of replicate pairs	70
Total number of controls	50
Total number of spikes by ANL (50) and EPA (30)	80
Number of locations with radon concentrations ≥ 4.0 pCi/L	55
Number of locations with radon concentrations ≥ 3.6 pCi/L but < 4.0 pCi/L (> 90% of the action level)	22
Number of locations with radon concentrations ≥ 3.2 pCi/L but < 4.0 pCi/L (> 80% of the action level)	54

TABLE 5.2 Structures with Radon Concentrations ≥ 4.0 pCi/L

Property	Address (Unit)	Detector No.	Conc. (pCi/L)
Ansonia, Conn.	9 Hughes Cir. (9) (Replicate)	1648257	8.6
Ansonia, Conn.	9 Hughes Cir. (9) (Replicate)	1648251	16.3
Ansonia, Conn.	11 Hughes Cir. (11)	1648242	10.8
Ansonia, Conn.	14 Hughes Cir. (14)	1648277	4.1
Ansonia, Conn.	15 Hughes Cir. (15)	1648252	6.7
Shelton, Conn.	8 Palmetto Cir.	1646468	5.0
Shelton, Conn.	9 Palmetto Cir.	1646465	5.9
Westport, Conn.	8 Wassell Ln. (8)	1646472	7.8
Westport, Conn.	10 Wassell Ln. (10)	1646462	4.8
Westport, Conn.	11 Wassell Ln. (11) (Relicate)	1648481	5.6
Westport, Conn.	11 Wassell Ln. (11) (Replicate)	1644204	4.8
Westport, Conn.	15 Wassell Ln. (15)	1646483	8.0
Westport, Conn.	17 Wassell Ln. (17)	1646463	5.3
Westport, Conn.	18 Wassell Ln. (18)	1646464	4.4
Westport, Conn.	20 Wassell Ln. (20)	1646489	10.6
Addison, III.	403 Natoma (403) (Replicate)	1644027	4.8
Addison, III.	403 Natoma (403) (Replicate)	1644003	5.2
Addison, III.	413 Army Trail Rd.	1645092	4.9
Addison, III.	419 Army Trail Rd. (419)	1643997	5.7
Worth, III.	MCA #6 (6)	1647022	· 5.8
Burlington, Mass.	117 S. Bedford (117)	1641184	4.1
Randolph, Mass.	6 Army St. (6)	1643099	7.7
Watertown, N.Y.	240 Coughlin Dr. (240)	1643439	4.2
Dorseyville, Penn.	S23Q Myers Ln. (23)	1436000	4.0
Elizabeth, Penn.	S840 Route 4 (84)	1643086	12.3
Elrama, Penn.	S85Q Route 4 (85)	1643214	20.2
Elrama, Penn.	S86Q Route 4 (86)	1643200	11.4
Herminie, Penn.	S58Q Mars Hill Rd. (58)	1643208	4.1
Herminie, Penn.	S60Q Mars Hill Rd. (60)	1643196	9.8
Herminie, Penn.	S64Q Mars Hill Rd. (64)	1643224	18.0
Herminie, Penn.	S66Q Mars Hill Rd. (66)	1.643213	4.3
Newport News, Va.	Unit #9 (9)	1647557	5.4
Sun Prairie, Wisc.	99 Ent Dr. (12210	1643134	5.8
Sun Prairie, Wisc.	101 Em Dr. (1216)	1641509	4.0
Sun Prairie, Wisc.	102 Ent Dr. (1202)	1647586	6.4
Sun Prairie, Wisc.	104 Ent Dr. (1114)	1643123	4.1
Sun Prairie, Wisc.	147 Fairchild (1001)	1647011	4.8

TABLE 5.2 (Cont'd)

Property	Address (Unit)	Detector No.	(pCi/L)
Sun Prairie, Wisc.	150 Fairchild (1101)	1647006	5.9
Sun Prairie, Wisc.	143 Harmon Cir. (1101)	1643109	4.8
Sun Prairie, Wisc.	87 N. Andrews Dr. (1102)	1643117	6.0
Sun Prairie, Wisc.	88 N. Andrews Dr. (1014)	1646980	5.2
Sun Prairie, Wisc.	121 Schumann (1018)	1644026	4.3
Sun Prairie, Wisc.	123 Schumann (1002)	1643998	4.0
Sun Prairie, Wisc.	126 Schumann (910)	1647017	4.7
Sun Prairie, Wisc.	127 Schumann (902) (Replicate)	1646986	4.8
Sun Prairie, Wisc.	127 Schumann (902) (Replicate)	1647016	4.3
Sun Prairie, Wisc.	154 Stull (1018)	1647013	4.3
Sun Prairie, Wisc.	159 Stull (1017)	1647001	17.4
Sun Prairie, Wisc.	161 Stull (1001)	1647012	4.9
Sun Prairie, Wisc.	87 W. Andrews Dr. (1106)	1646993	12.4
Sun Prairie, Wisc.	106 W. Andrews Dr. (1009) (Replicate)	1643107	5.4
Sun Prairie, Wisc.	106 W. Andrews Dr. (1001) (Replicate)	1643108	4.2
Sun Prairie, Wisc.	107 W. Andrews Dr. (1025)	1647028	4.4
Sun Prairie, Wisc.	109 W. Andrews Dr. (1057)	1643135	5.0
Sun Prairie, Wisc.	113 W. Andrews Dr. (1205) (Replicate)	1643995	6.6
Sun Prairie, Wisc.	113 W. Andrews Dr. (1205) (Replicate)	1644025	5.8
Sun Prairie, Wisc.	113 W. Andrews Dr. (12010)	1643115	9.5
Sun Prairie, Wisc.	115 W. Andrews Dr. (1214)	1644029	9.2
Sun Prairie, Wisc.	118 W. Andrews Dr. (1118)	1643112	4.0
Sun Prairie, Wisc.	119 W. Andrews Dr. (1110)	1643105	4.1
Sun Prairie, Wisc.	94 Vandenberg (1102)	1647582	4.0
Sun Prairie, Wisc.	94 Vandenberg (1106)	1643118	4.2

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- 4. Radon Reference Manual, U.S. Environmental Protection Agency EPA 520/1/87-20 (Sept. 1987).
- Interim Protocols for Screening and Follow-up Radon and Radon Decay Product Measurements, U.S. Environmental Protection Agency EPA 520/1-86-014-1 (Feb. 1987).
- A Citizen's Guide to Radon, U.S. Environmental Protection Agency, Centers for Disease Control, U.S. Department of Health and Human Services OPA-86-004 (Aug. 1986).
- 7. DOD Radon Assessment and Mitigation Policy, Memorandum issued from the Deputy Assistant Secretary of Defense (Environment) (Oct. 1987).
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Appendix A

Enhanced Preliminary Assessment Reports Published under the Army Base Closure Program

Appendix A:

Enhanced Preliminary Assessment Reports Published under the Army Base Closure Program

Property Name, Address	Publication Date	USATHAMA Report No.
Properly Name, Accress	- UDICATION DATE	reportio.
Ansonia Army Housing, Ansonia, Conn.	October 1989	CETHA-BC-CR-89018
East Windsor Army Housing, East Windsor, Conn.	October 1989	CETHA-BC-CR-89020
Fairfield Army Housing, Fairfield, Conn.	October 1989	CETHA-BC-CR-89022
Manchester Army Housing, Manchester, Conn.	October 1989	CETHA-BC-CR-89011
Middletown Army Housing, Middletown, Conn.	October 1989	CETHA-BC-CR-89024
Milford Army Housing, Milford, Conn.	October 1989	CETHA-BC-CR-89016
New Britain Army Housing, New Britain, Conn.	October 1989	CETHA-BC-CR-89014
Orange Army Housing, Orange, Conn.	October 1989	CETHA-BC-CR-8901
Plainville Army Housing, Plainville, Conn.	October 1989	CETHA-BC-CR-8901
Portland Army Housing, Portland, Conn.	October 1989	CETHA-BC-CR-8902
Shelton Army Housing, Shelton, Conn.	October 1989	CETHA-BC-CR-8902
Westport Army Housing, Westport, Conn.	October 1989	CETHA-BC-CR-8901
Addison Army Housing, Addison, III.	October 1989	CETHA-BC-CR-8904
Worth Army Housing, Worth, III.	October 1989	CETHA-BC-CR-8904
Croom Army Housing, Croom, Md.	October 1989	CETHA-BC-CR-8928
Bedford Army Housing, Bedford, Mass.	September 1989	CETHA-BC-CR-8926
Beverly Army Housing, Beverly, Mass.	September 1989	CETHA-BC-CR-8925
Burlington Army Housing, Burlington, Mass.	September 1989	CETHA-BC-CR-8925
Hull Army Housing, Hull, Mass.	September 1989	CETHA-BC-CR-8926
Nahant Army Housing, Nahant, Mass.	September 1989	CETHA-BC-CR-8926
Randolph Army Housing, Randolph, Mass.	September 1989	CETHA-BC-CR-8925
Swansea Army Housing, Swansea, Mass.	September 1989	CETHA-BC-CR-8925
Topsfield Army Housing, Topsfield, Mass.	September 1989	CETHA-BC-CR-8926

Property Name, Address	Publication Date	USATHAMA Report No.
Wakefield Army Housing, Wakefield, Mass.	September 1989	CETHA-BC-CR-89262
Wherry Army Housing, St. Louis, Mo.	November 1989	CETHA-BC-CR-89040
Clementon Army Housing, Clementon, N.J.	November 1989	CETHA-BC-CR-89028
Franklin Lakes Army Housing, Franklin Lakes, N.J.	November 1989	CETHA-BC-CR-89030
Holmdel Army Housing, Holmdel, N.J.	November 1989	CETHA-BC-CR-89027
Livingston Army Housing, East Hanover Twp., N.J.	November 1989	CETHA-BC-CR-89031
Old Bridge Army Housing, Old Bridge, N.J.	November 1989	CETHA-BC-CR-89029
Dry Hill Army Housing, Watertown, N.Y.	November 1989	CETHA-BC-CR-89035
Manhattan Beach Army Housing, Brooklyn, N.Y.	November 1989	CETHA-BC-CR-89037
Rocky Point Army Housing, Rocky Point, N.Y.	November 1989	CETHA-BC-CR-89036
Spring Valley Army Housing, Ramapo, N.Y.	November 1989	CETHA-BC-CR-8903
Tappan Army Housing, Tappan, N.Y.	November 1989	CETHA-BC-CR-8903
Coraopolis 71C Army Housing, Robinson Twp., Pa.	October 1989	CETHA-BC-CR-8900
Coraopolis 71L Army Housing, Moon Twp., Pa.	October 1989	CETHA-BC-CR-8900
Dorseyville Army Housing, Dorseyville, Pa.	October 1989	CETHA-BC-CR-8900
Elizabeth Army Housing, Elizabeth, Pa.	October 1989	CETHA-BC-CR-8901
Elrama Army Housing, Elrama, Pa	October 1989	CETHA-BC-CR-89012
Finleyville Army Housing, Finleyville, Pa.	October 1989	CETHA-BC-CR-89005
Herminie Army Housing, Herminie, Pa.	October 1989	CETHA-BC-CR-8900
Irwin Army Housing, Irwin, Pa.	October 1989	CETHA-BC-CR-89004
Monroeville Army Housing, Monroeville, Pa.	October 1989	CETHA-BC-CR-89008
Rural Ridge Army Housing, Rural Ridge, Pa.	October 1989	CETHA-BC-CR-8900
Davisville Army Housing, North Kingston, R.I.	October 1989	CETHA-BC-CR-89281
Slatersville Army Housing, North Smithfield, R.I.	October 1989	CETHA-BC-CR-8928
Manassas Army Housing, Manassas, Va.	October 1989	CETHA-BC-CR-8928
Patrick Henry Army Housing, Newport News, Va.	October 1989	CETHA-BC-CR-8928
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Property Name, Address	Publication Date	USATHAMA Report No.
Woodbridge Army Housing, Woodbridge, Va.	October 1989	CETHA-BC-CR-89285
Midway Army Housing, Kent, Wash.	November 1989	CETHA-BC-CR-89034
Youngs Lake Army Housing, Renton, Wash.	November 1989	CETHA-BC-CR-89039
Sun Prairie Army Housing, Sun Prairie, Wisc.	November 1989	CETHA-BC-CR-89043

Appendix B

Preliminary Notice Materials for the Radon Study



DEPARTMENT OF THE ARMY

US ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY
ABERDEEN PROVING GROUND, MARYLAND 21010-5401



CETHA-BC-B (50-6c)

1 0 AUG 1989

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Radon Sampling

- 1. Part of the mission of this Agency, to conduct environmental surveys at all 53 stand-alone housing areas, is the performance of radon sampling for each housing unit. We plan to deploy a 90-day sampler at each unit commencing in mid-September. Representatives from Argonne National Laboratory will be deploying these units, and will need access to each residence.
- 2. Request that you submit the name and telephone number of a Point of Contact for the housing area(s) under your jurisdiction to this office NLT 30 Aug 89. This person will need to act as liaison with the Argonne personnel to ensure access to each unit during their visit, in order that all samplers may be properly deployed.
- 3. In addition, a draft letter and Radon Fact Sheet are enclosed for your use in notifying the housing residents of the upcoming sampling. Request that this office be copy furnished on the letter which is sent to the residents.
- 4. Results from this sampling phase should be available during 20FY89, and will be provided for your dissemination to the housing residents at that time.
- 5. In the event that the 90-day sampling is not definitive, an additional sampler will be deployed, where necessary, to extend the total sampling period to a year.
- 6. PCC for this Agency is Mr. Joseph A. Ricci, (301) 671-3461/3261.

FOR THE COMMANDER:

2 Encls

SALVATORE P. TORRISI Chief, Base Closure Division

DISTRIBUTION:

Cdr, Fort Devens, ATTN: AFTD-DEE-P (Mr. Bob Winter), Fort Devens, MA 01433-5100

Cdr, U.S. Army Training Center & Fort Dix, ATTN: ATZD-EHP, Fort Dix, NJ 08640-5075

Cdr, I Corps and Fort Lewis, ATTN: AFZH-DEP-R (Mr. Lee Burnett), Fort Lewis, WA 98433-5000 (CONT)

CETHA-BC (50-6c)

SUBJECT: Radon Sampling

DISTRIBUTION: (CONT)

Cdr, U.S. Army Engineering Activity, Capital Area, ATTN: CENAC-CS (CPT Kenneth McLain), Building 17, 5010 Duke Street, Cameron Station, Alexandria, VA 22304-5050

Alexandria, VA 22304-5050
Cdr, CECCM, ATIN: AMSEL-PL-C (Mr. Larry Smith), Fort Mormouth, NJ 07703-5000
Cdr, U.S. Army Charles Melvin Price Support Center, ATIN: SABAS-F
(Ms. Janice Cook), Granite City, IL 62040-1801

Cdr, Fort Drum, ATIN: AFXS-EH-P (Ms. Ann Waterman), Fort Drum, NY 13602-5000 Cdr, Charles E. Kelly Support Facility, ATIN: AFKA-CK-EH-H (Mr. John Giubileo) Oakdale, PA 15071-5000

Cdr, Fort McCoy, ATTN: AFTR-NO (Mr. Al Fournier), Sparta, WI 54656-5000 Cdr, Fort Hamilton, ATTN: ATZD-EH-FH (Ms. Anne Slaker), Fort Hamilton, NY 11252

Cdr, U.S. Army Transportation Center and Fort Eustis, ATTN: ATTF-EHW (LTC Wesley J. McMillan), Fort Eustis, VA 23604

Cdr, U.S. Anny Engineer Center and Fort Belvoir, ATTN: ANFB-DEH-EN (Mr. Patrick McLothlin), Fort Belvoir, VA 22060-5000

(Mr. Patrick McIothlin), Fort Belvoir, VA 22060-5000 Cdr, Fort Sheridan, ATIN: AFKE-ZO-TIF (Mr. Dick Hanson), Fort Sheridan, IL 60037-5000

CF (w/encls):

Cdr, AMC, ATTN: AMCMP-0 (Mr. Bob Jameson), 5001 Eisenhower Ave., Alexandria, VA 22333-0001

Cdr, FORSCOM, ATTN: FCDJ-BC (Ms. Enna Roulier), Fort McPherson, GA 38330-6000 Cdr, TRADOC, ATTN: ATCS-R (MAJ Richard Byron), Fort Monroe, VA 23651-6000 Cdr, MDW, ATTN: ANRM-MRB (Ms. Peg Wigle), Fort Lesley J. McNair, WASH DC 20319-5000

DRAFT LETTER OF NOTIFICATION TO OCCUPANTS

Colonel and Mrs. John Doe 1234 Patton Drive Offbase Housing, US

Dear Colonel and Mrs. Doe:

The Department of Army has requested the evaluation of radon gas levels in offbase housing units. This is similar to the evaluations onbase, that you may have heard about. Information on radon and why it is a matter of concern is enclosed.

In order to measure, a small detector will be placed in your home and left there for three months. The detector is a small canister no greater than a few inches in height or diameter; it requires no electricity and makes no sound. The radon sensitive portion of the detector consists of a plastic material.

Argonne National Laboratory, a large federally funded research institution in the Midwest has been asked to carry out this project. You will be contacted by Argonne personnel in the near future who will answer your questions and place a radon detector in your home and discuss the arrangements for the return of the detector to Argonne by mail.

In the great majority of cases, radon gas is of no practical concern to the occupants of a home. For the small percentage of cases where action must be taken to reduce the radon level, the Department of Army will notify you of the need and the steps that will be taken.

Please give the people from Argonne your time and attention.

Sincerely,

Fact Sheet on Radon

What is radon? Radon-222 is an inert radioactive gas which occurs in nature. You cannot see it, smell it, or taste it.

Radon comes from the natural breakdown (radioactive decay) of uranium and can be found in high concentrations in soils and rocks containing uranium, granite, shale, phosphate, pitchblende, and phosphates.

In outdoor air, radon is diluted to such low concentrations that it is usually nothing to worry about. However, once inside an enclosed space (such as a home or office) radon can accumulate. Indoor levels depend both on a building's construction and the concentration of radon in the underlying soil.

What is the health hazard from radon? By itself, radon gas is inert, that is, it is chemically unreactive. The health hazard from radon gas comes from its radioactive transformation or decay into radioactive by-products or radon daughters. As radon decays, its by-products attach themselves to dust particles in the air. As you breathe, the radon decay products can become trapped in your lungs. As these decay products break down further, they release small bursts of energy which can damage lung tissue and lead to increased risk of developing lang cancer. Your risk of developing lung cancer from exposure to radon depends upon the concentration of radon and the length of time you are exposed. Exposure to a slightly elevated radon level for a long time may present a greater risk of developing lung cancer than exposure to a significantly elevated level for a short time. In general, your risk increases as the level of radon and the length of exposure increase. Not everyone exposed to elevated levels of radon will develop lung cancer, and the time between exposure and the onset of the disease may be many years.

How does radon get into a home? Since radon is a gas it can move through small spaces in the soil and rock an which a house is built. Radon can seep into a home through dirt floors, cracks in concrete floors and walls, floor drains, sumps, joints, and tiny cracks or pores in hollow-block walls. Radon also can enter water within private wells and be released into a home when the water is used. The dilemma is that, right now, no one knows which houses have a radon problem and which do not.

How is radon detected? Since you cannot see or smell radon, special detectors are needed. The two most popular are the charcoal canister and the alpha track detector. Both of these devices are exposed to the air in your home, normally on the lowest liveable level, for a specified period of time, in our case a few days (charcoal canister) or 3 months (alpha track detector) and analyzed in a laboratory to provide an estimate of the radon level in the home.

Appendix C

Radon Field Data Sheet

ARGONNE NATIONAL LABORATORY

U. S. Army Base Closure Radon Program

Field Data Sheet

Housing data:	
Housing area	Supporting Post
Street address	Unit No
City, State	Occupancy date
Zip	Departure date (if known)
Occupants	
Phone # (AC)	•
Detector data:	
Serial #	Location
Date opened	
Date due	
Time opened	•
Duplicate detector Yes	No
If yes, serial #	· •
Person opening detector	
Person completing form	
Return mailer left with	
Argonne team members	
Additional notes:	

Elizabeth, Elrama, and Herminie, Pennsylvania; Newport News, Virginia; and Sun Prairie, Wisconsin.

Appendix D

Radon Detector Return Instructions

1

ARGONNE NATIONAL LABORATORY

U. S. Army Base Closure Radon Program

<u>Detector</u> <u>Return Instructions</u>

Materials needed:

Rad-trak detectors Foil envelope Return mailer

Scotch tape Round foil seal

- 1. Remove round foil seal and foil envelope from return mailer.
- 2. Remove backing from round foil seal and place seal over holes on detector.
- 3. Write date on detector label in "ending date" space provided.
- 4. Place sealed detector in foil envelope, fold edge over and tape shut.
- 5. Place foil envelope with detector in return mailer, seal, and mail.
- 6. Do same for duplicate detector, if any. If any problems or questions, contact DEH. If DEH cannot resolve the problem, they will contact Argonne.
- 7. If foil envelope and/or round foil seal cannot be found, wrap detector in aluminum foil, and place in return mailer.

Return mailing address:

Argonne National Laboratory Army Radon Project P. O. Box 176 Westmont, IL 60559

Appendix E

Circumstantial Data for All Monitored Properties

Ansonia Army Housing Area Ansonia, Connecticut 06401 Indoor Radon Monitoring Conditions

No.	Address	<u>\$</u> 2	Occupants	Telaphane No. (203)	Sent Delte	End	Peceived Date	Duration (days)	Remerks
1648230	01 Ford St	10	PO Milmoe	736-9688	09/10/89	09/10/89 12/11/89	12/18/89	92	BKP
0	02 Hughes Cir.	02	PO Floumey					9	
1648274	03 Hughes Cir. 04 Hughes Cir.	0 0	CPO + Mrs. Bargado CPT Mutchko	736-0805	68//0/60	12/09/89	12/12/89	9 9	(ND)
370070	in the City	Š	PO - Mr Hill	736-0361	68/90/60	05/09/90	05/15/90	156	DJKP
040543	on Humbon Cit.	90	SSGT Blisso	735-0797	09/07/89	12/07/89	12/18/89	91	A
040570	of Higher Cir.	20	CPO + Mrs Knight	732-4222	09/28/89	02/20/90	02/23/90	145	BKP
648267	08 Hughes Cir.	90	CAPT + Mrs. Johnson	735-7037	68/80/60	12/08/89	12/18/89	91	BEKP
E40257	no Hirohae Cir	00	PO Knorr	734-1747	09/07/89	12/14/89	01/12/90	24	ACDEJK
648254	Oo Hiobes Cir	60	PO Knorr	734-1747	09/01/89	12/14/89	01/12/90	124	ACDEJKP
SAR246	10 Higher Cir	0	CPT Lukens	736-2039	09/07/89	05/09/90	02/12/90	52	DHJKP
648242	11 Hughes Cir.	Ξ	MSGT Flowers	734-8993	09/12/89	12/09/89	12/18/89	88	8 L P
64R272	12 Hunhes Cir.	12	SSC + Mrs. Dunlap	732-5549	09/07/89	12/24/89	12/27/89	108	DJKP
64R247	13 Hughes Cir.	13	HM2/E5 Clark	732-5644	68/10/60	12/31/89	01/02/90	115	DJKP
648277	14 Hughes Cir.	7	PO Gillespie	736-6013	09/01/89	12/07/89	12/12/89	6	CJKP
648252	15 Hughes Cir.	15	SSG Ronney	735-5723	09/08/89	12/07/89	12/12/89	06	ВКР
1648273	16 Huches Cir.	16	PO Stickles	735-8787	68/20/60	12/15/89	12/18/89	66	CDJKP

Remarks:		1	
Mosts detectors	H Exposure < 90 days	Q. (Capehart home
actor placed by occupent of DEH	J Exact duration of exposure	0	MCA home
mind dete unknown	unknown; concentration estimated	Œ	Duplex (one-story) home
for date unknown	K Detector in bedroom	S	Duplex (multistary) home
actor received with no seal	L. Detector in living room	_	Apartment building
date sheot	M Detector in kitchen	>	Below detection limit
occupied house	N Detector location unknown	Q.	
		Y Z	Not returned

East Windsor Army Housing Area East Windsor, Connecticut 06088 Indoor Radon Monitoring Condition

Defector No.	Address	3 &	Occupants	Telephone No. (203)	Oefe Ger	E 2	Peceived Date	Duration (days)	Remarks
646457	27 Pholine Bd	10	SGT Belgis	292-1823	09/10/89	12/24/89	12/27/89	105	DJKP
646437	20 Dhelos Bd	1.4	SG Wagner	623-3019	09/10/89	12/14/89	12/18/89	92	ADEJKP
246763		-	SG Wagner	_	09/10/89	12/14/89	12/18/89	95	ADJKPU
1645769	31 Phelps Rd.	5	GYSGT James P. Walsh		09/10/89	12/15/89	12/18/89	96	DJKP
1646436	33 Phoine Rd	9	PO Jet	627-6924	09/10/89	12/15/89	12/18/89	96	DJKP
644237	02 South Rd	02	PO Dawson	623-0296	09/10/89	12/31/89	01/08/90	112	9 N D
545768		03	SFC Clodpeller	623-9227	09/10/89	01/05/90	01/08/90	117	DEJKP
1645762	04 South Rd	0	PO Hunt	627-8618	09/10/89	12/13/89	12/18/89	7 6	CJKP
0		05	SSG Kasko						(QN)
1644235		90	PO Eckes	623-4370	09/10/89				X P (NA)
1644249		07	SSG Ferguson	654-1727	09/10/89	01/12/90	01/15/90	124	DEJKP
1644234	08 South Rd.	90	PO Janowiak	623-7052	09/12/89	12/26/89	01/02/90	105	ВКР
1645766	09 South Rd.	60	SSG Wittowski	623-0218	09/10/89	12/10/89	12/18/89	16	A P
1644248	10 South Rd.	10	CPL Thompson		09/10/89			•	T S
1645767	11 South Rd.	= 2	PO-1 Oivo GYSGT Hando	692-1360 623-0215	09/10/89	02/22/90	03/02/90	1 60	K M K G
					200	00.000	00,01,00	92	
1644246	TO SOUTH HE	13	CAPI POWOR	292-6176	68/11/80	06/91/20	08/81/20	000	

*Key to Remarks:

Fairfield Army Housing Area Fairfield, Connecticut 06430 Indoor Redon Monitoring Conditions

2	Acthess	<u> </u>	Occupants	No. (203)	Cate Cate	<u> </u>	Peogwed Date	(days)	Pernerks ⁸
0000731	من مناسط هارم	4	ing off	SER. KE 18	09/0/0/00	12/24/80	12/27/80	90	941.0
040533		- 6	DO : 14.	167 1699	00/06/00	01/07/00	01/12/00	200	202
0404/6	OCO Jarvis	0 0	TO + MS. COM	201-104	60,00,60	0011010	00/21/07	2 6	
1644216	_	58	MSG + Mrs. Comme	222-8432	69/90/60	12/0//89	12/12/89	36	2
1644212	037 Jarvis Ct.	37	SSG + Mrs. Thomas	254-7750	68/90/60	12/07/89	12/12/89	92	CKP
646403	042 lands Ct	42	CPO . Mrs Manday	255,3701	09/06/89	12/06/89	12/12/89	6	ď
20000	BA 180 740	1	COO The lother	0000	00/30/00	00/10/00	00/07/00		. 0
1648269	UST Jarvis	2	SOC + Mrs. Lanuns	724-8720	09/00/63	06/00/20	06/21/20	701	L (
0	Jarvis (28	PO + Mrs. Gallaher						2
1644202	065 Jarvis Ct.	65	PO + Mrs. Schoettner	255-6384	68/90/60				K P (RR)
		į						•	2
1644205	_	2	SSG Hass	372-0042	68/90/60	02/16/90	02/23/90	163	7
646487	077 Jarvis (11	ISG + Mrs. McAvoy	255-5890	68/90/60	05/05/90	05/02/30	57	D JK P
1648254	084 Jarvis (8	SGT + Mrs. Pomerantz	255-0747	09/01/89	12/07/89	01/02/90	91	EKP
1644206	089 Jarvis (88	PO + Mrs. Polin	259-7831	68/90/60	12/05/89	12/08/89	06	DJKP
648235	100 Jamis Ct	5			09/07/89	05/21/90	03/02/80	167	EKP
1644201		=	CDO - Me Woodley	255.40A£	08/90/00	05/02/00	02/12/00	152	AKD
644200			CDO + Mrs. Woosely	255.4986	09/09/80	05/02/00	05/17/00	152	AKP
648234	330 Cuipor 6	320	PO + Mrs. Parent	255-3460	09/06/89	01/03/00	01/08/90	5	S X
040234	2	350	TO THE STATE OF TH	2010	500000	25.00.10			
648262	321 Quincy St.	321	SSGT + Mrs. Armstrong	254-7628	68/90/60	02/24/90	02/27/90	171	BCDJKF
648258	336 Quincy St.	336	SSG + Mrs. Judson		68/90/60	12/09/89	12/12/89	94	BDEJKP
1644214	Ouincy.	350	MCPO + Mrs. Thomas	259-3986	68/90/60	12/16/89	12/19/89	101	a A
1646475	Quincy	362	SSG + Mrs. Simmons	254-8313	68/90/60	12/14/89	12/18/89	66	AXP
		6		0100 130	00/00/00	00/71/61	09/01/01	8	9 %
1840401	362 Cuincy	362	SOCE + MES. SEMIMONS	254-6313	08/00/04	00/11/00	00/26/60	141	ON TO B
640237	Sys Collect	970	CCT . Mr. Braun	254 2012	00/10/00	06/61/30	05/5/130	•	D X D
1648275	385 Quincy St	38.7	WO + Mrs McPride	7107-667	09/28/89	05/11/00	02/23/90	143	BCJNP
*Key to Remarks:	emerks:								
	•		-				•	Court of the state	
Detection Starting	Duprizing Connectors Defeator placed by occupant of DEH Starting date unknown Ending date unknown	•	H Exposure < 90 days J Exact duration of exposure unknown; concentration estimated K Detector in bedroom I Detector is living more	oays of exposure centration er	timated		- 255€ - 0 = 0 +	MCA home Duplex (one-story) home Duplex (multistory) home Accument huilding	ory) home lory) home idina
	No data sheet		_	chen				Below detection limit	n fimit
_	Unoccupied house		N Detector location unknown	tion unknown				No data	

Fairfield Army Housing Area (Cont'd) Fairfield, Connecticut 06430 Indoor Radon Monitoring Conditions

Detactor No.	Adbess	₹ e	Occupants	Telaphone No. (203)	Safe Oate	<u>F</u> 4	Pecsived Date	Duration (days)	Remarks
1644203 1646495 1648264 1648253	394 Quincy St. 397 Quincy St. 409 Quincy St. 412 Quincy St.	394 397 409 412	CAPT + Mrs. Coleman TSG + Mrs. Edwards De Para CWO + Mrs. Vervitle	254-7470 259-1497 254-2317 255-6195	68/90/60 68/90/60 68/90/60 68/00/60	02/20/90 12/15/89 02/26/90 01/05/90	02/23/90 12/19/89 03/06/90 01/08/90	167 100 173 120	DJKP KP BCKP DJKP
1644211	673 Reel Rd. 703 Reel Rd.	673 703	SSG Brown MSGT Andraws	254-0875 255-5725	68/90/60	12/09/89	12/12/89	8	DEJKP BNP INRI

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K Detector in bedroom
L Detector in living room
M Detector in kitchen
N Detector location unknown

D E

Manchester, Connecticut 06040 Indoor Radon Monitoring Conditions

	Address	5 2	Occupents	No. (203)	Defe de	P 98	Hecewed	(days)	Remarks [®]
1646453	002 Nike Cir.	005	CPO Busch	649-7221	09/10/89	12/21/89	12/27/89	102	<u>م</u>
646428	007 Nike Cir.	007	SSGT Menard	646-4771	09/10/89	12/05/89	12/08/89	06	DJKP
1646427	008 Nike Cir.	800	CPO Anderson	645-6723	09/10/89	12/12/89	12/18/89	93	Z.
646429	011 Nike Cir.	110	SSGT Grant	645-6105	09/10/89	05/06/90	05/15/90	149	χ σ
RAEAKE	Ot 7 Nipe Cit	017	TSGT Camobell	645-1639	09/11/89	12/31/89	01/05/90	=	BCDEJNP
040400	- 10 OH		timo Ca	643.7002	09/10/R9	12/16/89	12/19/89	4	4
04040	O STATE OF S	2 6	SCT Marin	640-6266	09/10/80	12/24/89	12/27/89	105	DEJKP
646461	COUNTY CH.	027	TSGT Gilgrenst	646-9647	09/10/89	12/31/89	01/02/90	112	DEJKP
04040	OST TIME OFF.	1							
EARAKA	020 Nike Cir	029	SGT Pussell	643-5739	09/10/89	12/15/89	12/18/89	96	DJKP
RARASO	O24 Nite Cir	034	TSGT Rollend	643-9577	09/10/89	01/10/90	01/18/90	122	Δ.
645765	037 Nike Cir	037	CPO Sepine	645-8947	09/10/89	12/10/89	12/18/89	91	8 X P
1645759	041 Nike Cir.	041	WO Mohr	645-0710	09/10/89	12/24/89	12/27/89	105	DJKPU
			Barrell	3636 3636	00/10/00	49/40/80	12/18/80	6	2
646425	Ode Nace Cir.	9 6	MAL + MES. HUSSBI	640-1033	00/07/00	12/13/89	12/18/80		Brkp
644245	CAS NEG CE.	200	SCIN LEWIS	647.733	00/10/00	00/00/00	05/02/00	571	O.IKP
646432	DOZ NIKO CIT.	700		647 4940	00/01/00	05/35/30	05/22/20	16.2	2
646430	USS NIKE CIF.	660	Ci Johnson	04/-1348	69/01/60	06/6/130	05/5/30	301	
645780	Deo Nike Cir	090	CPO Heideman	647-0348	09/10/89				BKP [NR]
646443	O61 Nike Cir.	061	SSGT Ness	646-1134	09/10/89	12/15/89	12/18/89	96	DJKP
646439	OGS Nike Cir	990	PO McCormick	645-8249	09/10/89	01/05/90	01/08/90	117	DELNP
644242	069 Nike Cir.	690	SSG Wilson	646-4364	09/10/89				BKP [NR]
1778777	074 Mile Civ	770	PO O'Brien	E47.7793	09/10/89	12/10/89	12/18/89	2	
RAFAR	OZS NIPO CIT	075	SSGT Bhodes	643-5160	09/10/89	12/05/89	12/08/89	88	DEJKP
154642R	070 Nite Cir	070	PO Baymond	643-8731	09/10/89	12/09/89	12/12/89	06	EXP
1646432	083 Nike Cir.	083	CPO Lemelin	645-0038	09/10/89	05/11/50	02/14/90	154	DEJKP
*Key to Remarks		•							
			H Exposure < 90 days	90 days				Capehart home	•
Starting C Starting C Frofing No dail	Design placed by accupant of DETS Starting date unknown Ending dele unknown Detector received with no seel	∸		exact durator of exposure unknown; concentration estimated Detector in bedroom Detector in fiving room Detector in kitchen	êmated .			Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit	lary) hame lary) hame Iding on limit
_	Unoccupied nouse			Defector location unknown				The Call	

Defination No.	Address	₹ S	Occupants	Telephone No. (203)	Sent	End Date	Pecsived Date	Duration (days)	Pemerks ^a
		700	CCC Brione	643-0462	09/10/89	01/09/90	01/12/90	121	DJKP
646431	OS/ NIKO CIE	000	100 PC	647-9772	09/10/89	12/10/89	12/18/89	91	XP.U
1646433	Car Nike Cir.	000	SCT Techer	646.3537	09/10/89	01/05/90	01/08/90	117	ADEJKP
646434	089 Nike Cir.	680	SGT Taylor	646-3537	09/10/89	01/02/90	01/08/90	117	ADEJKP
		000	DO lumicin	645-0767	09/12/89	12/15/89		94	BKP
644243		200	DO Himen	645-0740	09/10/89	05/06/90		149	4
646424		9 0	1000 TOO	646.8170	09/10/89	12/29/89		110	d Y
1646437 1644244	102 N#6 Cir. 112 Nike Cir.	112	SGT Lando	649-7102	09/12/89	12/12/89	12/27/89	16	ВКР
1646435	118 Nike Cir	118	CAPT Franklin	645-8435	09/10/89	03/04/90	03/01/90	175	DJKP

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Middletown Army Housing Area Middletown, Connecticut 06457 Indoor Radon Monitoring Conditions

Defector No.	Adbess	3 &	Occupents	Telephone No. (203)	Sent Cain	Delte	Peceived Date	Ounstion (days)	Pemerks ^a
641643	20 Milliam DA	32	PO Manning	344-1137	09/11/89	12/16/89	01/02/90	96	Ā
644238	42 Military Dd	42	PO Encell		09/12/89	01/16/90	01/19/90	126	BOJNP
644236	40 Mileon Dd	7	SCPO Bechtel	347-7997	09/11/89	12/11/89	12/18/89	91	KPU
641517	50 Military Rd.	20	CPO McNeil	344-1591	09/11/89	12/15/89	12/18/89	95	DJKP
. 45.76	ET Miles Da	7.3	GVSGTImeh	638-3807	09/11/89	12/11/89	12/18/89	16	T
1045/01	SO Milean De	e e	MSG Chanman	346-3363	09/11/89	12/19/89	12/27/89	66	XPU
644230	67 Military Dd	67	SGT Rangel	643-3817	09/11/89	12/15/89	12/18/89	95	DJKP
1644252	68 Military Rd.	989	PO McKenzie	346-0556	09/11/89	11/15/89	11/20/89	65	HKPU
1844251	73 William Rd	73	SSG Lugardo	347-6833	09/11/89	12/11/89	12/18/89	6	d :
1644230	74 Military Rd	7.4	GYSGT Agront	347-1929	09/11/89	12/11/89	12/18/89	6	d.
1641519	83 Military Rd.	83	Smallwood	344-1638	09/11/89	12/15/89	12/18/89	9	DJKP
644225	84 Military Rd.	84	CPO Nielsen	344-9278	09/11/89	01/18/90	01/22/90	129	A P
1841537	An Milliany Rd	68	SPIG Clark		09/12/89	12/11/89	12/18/89	8	BCJNP
1644228	90 Wiltery Rd	06	PO Romeo	347-7631	09/11/60	05/06/90	05/15/90	148	X .
1645758	97 William Rd.	16	CPO Aitkins	647-5578	09/11/89	12/11/89	12/18/89	6	AKPO
1644254	97 Military Rd.	16	CPO Aitkins	647-5578	09/11/89	12/11/89	12/18/89	-6	A X A
011210	Of Millery De	6	SEC Brinson	346-8907	09/11/89	12/21/89	12/27/89	101	EKP

ioniarks:	H Emosure < 90 days	0.	Capehart home
ctor placed by occupent of DEH	J Exact duration of exposure	0 E	MCA home Duplex (one-story) hom
ng date unknown	K Detector in bedroom	: o ⊢	Duplex (multistory) home
ctor received with no see! ats sheet	L. Delector in Ning room M. Detector in Nitchen	-⊃;	
cupied house	N Detector location unknown	Z Z	

Detector		14 5		Telephone	TE (S	Received	Oundon	
Ž	Address	e Z	Occupents	No. (203)	egg.	9	Cette	(OBJAS)	Hemens
649220	Of Alaba St	10	PO + Mrs. Boone	877-6518	68/90/60	12/06/89	12/12/89	16	A G
245456	ON ALLES OF	20	CWO + Mrs Wife	878-1508	68/90/60	12/15/89	12/18/89	100	DJKP
646463	OZ Alpha St.	800	PO + We Hime	874-8230	68/90/60	12/24/89	12/27/89	109	DEJKP
648228	04 Alpha St.	0.0	SSGT + Mrs. Kemp	874-7757	68/90/60	12/15/89	12/18/89	100	DEJKP
646470	OK Alabe Co	0.50	PO + Mrs. Cerreno	877-7146	68/90/60				E P
646479	Of Alpha Co	90	PO + Mrs. Mimitz	877-2387	68/90/60	01/05/90	01/08/90	121	ADJKP
845401	Of Alpha St.	90	PO + Mrs. Mimitz	877-2387	68/90/60	01/05/90	01/08/90	121	ADJKP
646488	07 Alpha St.	07	SSGT + Mrs. Ceccoruffi	874-3929	68/90/60	12/06/89	12/12/89	91	œ.
990000	OB Alaba G	č	SGT + Mrs Evens	877-4637	68/90/60	05/09/90	02/12/90	156	DEJKP
1648259	OB Alpha St	60	SGT + Mrs. Fretschi	877-4549	68/10/60	12/09/89	12/12/89	93	CDJKP
648243	10 Alpha St.	10	PO + Mrs. Morrison		68/20/60	12/05/89	12/08/89	83	BCDJNP
646480	Alpha	-							L
1848250	12 Alaba St	-12	PO + Mrs. Pockwell	877-6544	68/90/60	12/07/89	12/12/89	92	Ā
1648227	13 Alphe St	13	CAPT + Mrs. Land	286-2712	68/90/60	12/31/89	01/02/90	116	DJKP
648249	14 Aloha St	7	SSG + Mrs. Colper	877-3559	68/90/60	12/09/89	12/12/89	84	DJKP
648276	15 Alpha 9t.	15	PO + Mrs. DeGarmo	878-3077	68/90/60	12/06/89	12/12/89	91	E F
1KAR233	18 Alphe St	16	PO Amold	876-1609	68/90/60	12/09/89	12/12/89	6	ADJKP
648265	16 Aloha St	16	PO Amold	876-1609	68/90/60	12/09/89	12/12/89	94	ADJKP

by occupent of DEH or received with no seal

K Detector in bedroom
L Detector in living room
M Detector in kitchen
N Detector location unknown

Below detection No deta No deta Not returned J NE

New Britsin Army Housing Area New Britsin, Connecticut 06051 Indoor Radon Monitoring Conditions

No.	Address	Z S	Occupants	Tehphone No. (203)	Par die	Defe	Peceived Date	Ountion (days)	Remarks
913619	906 Canada	90	SSG Sheiri	223-6996	09/12/89	12/12/89	12/18/89	16	A P
041010		3 =	PO Fisher	229-9356	09/12/89	12/31/89	01/02/90	110	DJKP
710160			PO Binns	827-1975	09/12/89	12/15/89	12/18/89	94	DJKP
1644227	017 Halsey St.	17			09/13/89	12/12/89	01/02/90	06	BENP
****	034 Ustrav Ct	5	PO Alvarray	223-7338	09/12/89	12/24/89	12/27/89	103	DJKP
1041011	Ost Marsey St.	=	SSGT Beumoin	224-3624	09/12/89	12/18/89	12/27/89	16	A D
010100	O12 Kulper St	. 2	PO Guilford	224-8567	09/12/89	12/12/89	12/18/89	16	X
1641534	019 Kulper St.	6	SGT Manzella	229-5604	09/12/89	01/15/90	01/18/90	125	DEJKP
141521	020 Kulper St.	20	SSG Johnson	224-2185	09/12/89	01/16/90	01/19/90	126	DJKP
1641549	027 Kulper Rd.	27	SSG Tolliner	224-8072	09/12/89	01/16/90	01/19/90	126	DEJKY
1641535	028 Kulper St. 035 Kulper Rd.	28 35	SGT Sliker	223-9213	09/15/89	01/01/90	01/05/90	108	BCDJKP
641540	208 Bocky Hill Ave	298	SSG Gee	223-5391	09/12/89	05/11/90	02/14/90	152	AEJKP
341523	298 Rocky Hill Ave.	298	SSG Gee	223-5391	09/12/89	02/11/90	02/14/90	152	A E J K P K P ING!
1641520	306 Rocky Hill Ave. 312 Rocky Hill Ave.	306 312	SGT David PO Gensel	225-9987	09/12/89	01/01/90	01/03/90	Ξ	DEJKP
1646482	320 Backy Hill Ave.	320	SGT Hughes	225-5141	09/12/89	12/12/89	12/18/89	16	A D

cate detectors	H Exposure < 90 days	Δ.	Capehart home
stor placed by occupent of DEH	J Exact duration of exposure	0	MCA home
ng date unknown	unknown; concentration estimated	E (Duplex (one-story) nome
date unknown	K Detector in bedroom	ا د	Duplex (mulius tory) nome
tor received with no seal	 Detector in living room 	-:	Aparament buriong
ta sheet	M Detector in kitchen	>	Below defection firmit
cupied house	N Detector location unknown	2 2	No deta

Defector No.	Adbess	3 2	Occupents	Telephone No. (203)	See See	S &	Pecewed	(days)	Pemerks
0	-			700 8067	08/80/00	12/11/80	12/18/80	3	[ND]
646284	E E		A COURT	700-R067	09/08/80	12/11/89	12/18/89	8	A X
646445	349 Smith Farm Rd.		SGT Johnson	799-8710	09/08/89	12/14/89	12/18/89	16	A P
646440	350 Smith Farm Bd		SSGT Stanton	795-1569	68/90/60	02/04/90	05/12/90	149	Ā
648281			PO Brown	799-1401	68/80/60	12/11/89	12/18/89	8	Z I
1646441	354 Smith Farm Rd. 355 Smith Farm Rd.		PIO Morrison	799-9874	10/11/89	01/11/90	01/19/90	4 82	M X X O O
646480	_		PIO Momison	799-9874	68/80/60	12/06/89	12/12/89	8	AKP
1646448	359 Smith Farm Rd.		PO Barbee	799-9232	09/09/80	12/05/89	12/08/89	æ	Z X 7 C
6482/8	342 Sybil St.		SSG Foley	799-3897	68/80/60	05/06/90	02/12/90	151	A D
642288	Sydia		None-House closed		68/90/60	01/19/90	02/27/90	133	GMP
1646469	ZA.S		SSG Bendredu	799-8702	09/08/89	12/08/89	12/18/89	6	χ.
1648279	350 Sybii St. 350 Sybii St.		SSG Lewis SSG Lewis	795-5350 795-5350	09/08/89				A A A P I A A A A A A A A A A A A A A A
RARZAR	3		PO Graham	799-9220	68/90/60	12/15/89	12/16/89	60	DJKP
642300	SYPE		PO Patterson	799-8905	68/80/60	12/08/89	12/12/89	ā	χ σ
1646422	354 Sybil St.		SSG Medison	799-8570	09/08/89	12/08/89	12/27/89	66	4 4 4 4 4 6
						9		8	7
646421	355 Syell St.		CT Schriber	799-9116	98/90/90	12/05/69	12/18/89	8 6	2470
640430	7		PO Rivers	799-1783	68/80/60	12/24/89	12/27/89	107	DEJKP
6422BR	2		SEC. Locuster	700-1497	09/08/89	01/12/90	01/15/90	126	DJKP

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Pisinville Army Housing Area Pisinville, Connecticut 06062 Indoor Radon Monitoring Conditions

Defector No.	Actross	<u> </u>	Occupants	Telephone No. (203)	De Ser	Date	Peceived Date	(days)	Remarks ^a
1643451	01 Cassidy Dr.	28	SSG Kohnell	747-4599	09/12/89	12/15/89	12/18/89	94	EJKPAKPINRI
643456		0 0 0	SSG Home	747-0858	09/12/89	12/15/89	12/18/89	46	AKP NRI DEJKP
0 1643454 1643455 1641552		04 05 06	SSG Marrison PO Ewing SGT Cramer CAPT Larkin	793-9961 793-9377 747-1643	09/12/89 09/12/89 09/12/89	12/15/89	12/18/89	94	(ND) X P [NR] V X P V P V P V P V P V P V P V P V P V
1643423 1641550 1641533 0	08 Cassidy Dr. 09 Cassidy Dr. 10 Cassidy Dr. 11 Cassidy Dr.	000	SSG Robinson SFC Carmamela SGT Hand SSG Berkley	793-6817 747-6953 747-3785	09/12/89 09/12/89 09/12/89	12/31/89 12/13/89	01/02/90	110	KMP [NR] DJKP DJKP [ND]
1641525 1641526 1641560 1641553	12 Caesidy Dr. 12 Caesidy Dr. 13 Caesidy Dr. 14 Caesidy Dr.	2252	PO Brick PO Brick MSGT Owens SSG Widener	747-2041 747-2041 747-1099 793-9031	09/12/89 09/12/89 09/12/89 09/12/89	12/13/89 12/13/89 12/11/89	12/18/89 12/18/89 12/18/89	985	X W W W W W W W W W W W W W W W W W W W
1641514 1641515 1641536 1641522	15 Cassidy Dr. 16 Cassidy Dr. 17 Cassidy Dr. 17 Cassidy Dr.	\$1 5 7 7	SSGT Tribbett PO Zanelell Wright Wright	793-9022 747-3299 747-8328 747-8328	09/12/89 09/12/89 09/12/89	12/11/89	12/14/89	06	A X P N N A X P N N A X P N N A X P N N A X P N A X P N A X
1641547 1641555 1641559	18 Cassidy Dr. 19 Cassidy Dr. 20 Cassidy Dr. 21 Cassidy Dr.	18 20 21	SGT Haire SGT Versey GY Chektowski PO Runyan	747-5590 793-9233 747-0355	09/12/89 09/12/89 09/12/89	12/15/89	12/18/89	40	K P NRI C P NRI C D E J K P (ND)
*Key to Remarks	i ki								
Duplica C Starting D Ending Detection	Duplicate detectors Detector placed by occupant of DEH Starting date unknown Ending date unknown Detector received with no seal No data sheet Unoccupied house	• .	H Exposure < 90 days J Exect duration of ext unknown; concentra K Detector in twing roo L Detector in twing roo M Detector ho kitchen N Detector location unknown unkn	Expoeure < 90 days Exact duration of expoeure unknown; concentration estimated Detector in bedroom Detector in living room Detector in kitchen Detector location unknown	eimeted 6		0 0 E 0 F 0 E 0 E 0 E 0 E 0 E 0 E 0 E 0	Capehert home MCA home Duplex (one-story) hv Duplex (multistory) h Apartment building Below detection limit No detec	Capehert home MCA home Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit No dete

Defector No.	Adbess	₹ g	Occupents	Telephone No. (203)	S S	Pare Charle	Peosived Date	Ounton (days)	Remerks
541551	22 Cassidy	22	SSGT Nelson	747-0155	09/12/89	ł		S	K P [NR]
1641532 1641544 0	23 Cassidy Dr. 24 Cassidy Dr. 25 Cassidy Dr.	22.23	PO Hiplins SSGT Semanski	793-2076	09/12/89	12/15/89	12/18/89	2 4	NO.
1641557	26 Cassidy	26	SGT Weathers	793-2657	09/12/89	03/03/90	03/07/90	172	E K P
1641558	27 Cassidy Dr. 28 Cassidy Dr. 29 Cassidy Dr.	28 28 29	GYSGT Wurdinger MSGT Henn	747-1799	09/12/89	12/12/89	12/19/89	6	A N
341556	30 Ceseidy	30	PO Broussard	793-9981	09/12/89		12/18/89	90	D A A A A
1641545	32 Cassidy Dr. 32 Cassidy Dr.	35 35 35	Webb	747-2131	09/12/89	12/15/89		6 6	ADEJKP ADEJKP

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FOR N - D ON

Portland Army Housing Area Portland, Connecticut 06480 Indoor Radon Monitoring Conditions

Defector No.	Addess	<u>\$</u> &	Occupants	Telephone No. (203)	See See	D 2	Pecsived Date	Duration (days)	Remarks
1644250	01 Thomoson Hill Rd	9	PO Morrow	342-3748	09/11/89	12/10/89	12/18/89	06	A D
1645757	02 Thompson Hill Rd	02	POOkon	342-4276	09/11/89	12/14/89	12/22/89	94	A
1644218	03 Thompson Hill Rd	03	PO Stage	342-0232	09/11/89	12/11/89	12/18/89	91	A
644222	04 Thompson Hill Rd.	04	SSG Warner	342-2366	09/11/89	12/11/89	12/18/89	91	AKP
1644224	04 Thompson Hill Rd.	0	SSG Warner	342-2366	09/11/89	12/11/89	12/18/89	16	AKP
1644219	05 Thompson Hill Rd	05	PO Ensminger	342-2876	09/11/89	12/14/89	12/18/89	94	Ϋ́
44241	06 Thompson Hill Rd	90	CPO Donicz	342-1083	09/11/89	12/11/89	12/18/89	9	A
1644255	07 Thompson Hill Rd.	0.7	PO Tilden	342-3106	09/11/89	12/11/89	12/18/89	16	4
1844221	06 Thombson Hill Rd	90	SSGT Simmons	342-1707	09/11/89	12/11/89	12/18/89	6	g X
1644223	=	60	PO Gerdner	342-3676	09/11/89	12/12/89	12/18/89	92	A D
1645764	Ī	10	SSG Simmons	342-0729	09/11/89	01/13/90	01/16/90	124	DJKP
1644220	11 Thompson Hill Rd.	Ξ	PO Creighton	342-0373	09/11/89	12/24/89	12/27/89	104	CDJKP
1644231	13 Thompson Hill Rd	13	PO Kehrer	342-1771	09/11/89	12/10/89	12/18/89	06	A A
1644236	=	-	PO Shiner		09/28/89				ECDINPIN
1644240	15 Thompson Hill Rd.	15	PO Gallaugher		09/28/89	12/11/89	12/18/89	74	BCHJNP
1644247	=	16	PO Brinson	342-4348	09/11/89	12/31/89	01/02/90	=======================================	DEJKP

oth delectors	H Francius / 90 days	۵	Canadiant
for placed by comment of DEU	Event duration of exponents	·C	MCA hom
date introduce	unknown concentration estimated) CC	Duplex (o
debe unknown	K Detector in bachcom	S	Duolex (3
for menined with no seel	Defector in living room	-	Apartmen
a sheet	M Detector in kitchen	•	Below det
upied house	N Detector location unknown	ON	No data
		Z Z	Not return

Shelton Army Housing Area Shelton, Connecticut 06484 Indoor Radon Monitoring Conditions

No.	Address	32	Occupents	Telephone No. (203)	Dets Cart	F S	Peceived Date	Ounton (days)	Perneri ca
648232	01 Belmedta Cir	5	None-Site closed		68/80/60	03/13/90	03/16/90	192	GMP
30704	On Delivery Ct.	2	None-Site closed		09/08/89	03/13/90	03/16/90	192	GMP
040400	OZ PANTIONO CH.	4 6	None Site closed		09/08/80	03/13/90	03/16/90	192	GMP
1648238 1648236	04 Palmetto Cir.	20	NoneSite closed		09/08/89	03/13/90	03/16/90	192	GMP
270070	Of Debrotts Civ	5	NoneSite closed		68/80/60	03/13/90	03/16/90	192	GMP
	De Defendite Cit.	9	None. Site closed		09/08/89	03/13/90	03/16/90	192	GMP
1979591	OT Definition City	200	None. Site closed		09/08/89	03/13/90	03/16/90	192	GMP
646468	08 Palmetto Cir.	90	NoneSite closed		09/08/89	03/13/90	03/16/90	192	GMP
30707	A Charles	8	Noos. Sie closed		09/08/89	03/13/90	03/16/90	192	GMP
640400	10 Delmotto Cir.	5	None-Site closed		68/80/60	03/13/90	03/16/90	192	GMP
642315	11 Palmetto Cir.	=	None-Site closed		68/80/60	03/13/90	03/16/90	192	GMP
0	12 Palmetto Cir.	12	None-Site closed						
842300	13 Paimetto Cir	-	None-Site closed		68/90/60	03/13/90	03/16/90	192	GMP
1646471	14 Palmetto Cir	-	None-Site closed		68/80/60	03/13/90	03/16/90	192	AGMP
648231	14 Palmetto Cir	7	None-site closed		68/80/60	03/13/90	03/16/90	192	AGMP
642301	15 Palmetto Cir.	15	NoneSite closed		68/80/60	03/13/90	03/16/90	192	GMP
1646045	16 Palmetto Cir.	16	NoneSite closed		09/08/89	03/13/90	03/16/90	192	GMP

A Duplicate detectors
B Detector placed by occupant of DEH
C Starfing date unknown
D Ending date unknown
E Detector received with no seel

J Exact duration of exposure
unknown; concentration estimated
K Detector in bedroom
L Detector in Kirdng nom
M Detector in Kirdnen

Modeta Modeta

R Duplex (one-story) home
S Duplex (multistory) home
T Apertment building
U Below detection fimit
[ND] No dete

Westport Army Housing Ares
Westport, Connecticut 06880
Indoor Radon Monitoring Conditions

No.	Actions	<u>F</u> 8	Occupants	Telephone No. (203)	Date of the control o	De End	Peceived Date	Duration (days)	Pernerks
844207	Ol Wassell and	10	SSG Viola Redic	454-3164	09/02/89	03/03/80	03/12/90	179	A A
644213	03 Wassell and	03	SSGT Robert Nosal	227-6005	09/02/89	01/12/90	01/15/90	129	DJKP
646484	05 Wassell Lane	05	SFC Fernando Quiles	222-7892	09/02/89	03/16/90	03/27/90		DJKP[NR]
646490	06 Wassell Lane	90	PO Keith Bell	454-4032	09/02/89	12/16/89	12/19/89	102	DEJKP
RAKABA	07 Wassell and	07	AT2 Piccola N Pina	454-1935	09/02/89				K P [NR]
646472		08	MSG Steven Israel	222-2230	09/02/89	05/01/90	02/14/90	155	a. ¥
545474		60	PO Lutes	454-0563	09/02/89	12/05/89	12/08/89	16	<u>م</u>
646462		10	TSGT R. Denauh	454-2782	09/02/89	12/05/89	12/12/89	6	0. 20
EAKAR!	11 Wassell Lane	Ξ	SFC Paul Dobrinsky	454-4506	09/02/89	12/17/89	12/22/89	103	AKP
644204		Ξ	SFC Paul Dobrinsky	454-4506	09/02/89	12/17/89	12/27/89	103	A T
646473	12 Wassell Lane	12	SSG Patrick + Mrs. Neerv	221-0555	09/02/89				MP NR
1646483	15 Wassell Lane	15	SGT William Mendez	454-8743	09/02/89	12/15/89	12/18/89	101	BCDEJNI
1646476	16 Wassell Lane	. 9	GYSGT Gregary L. Flick	454-2167	09/02/89	12/05/89	12/27/89	16	X
1646463	17 Wastell Lane	11	LCDR +	226-8744	09/02/89	12/10/89	12/18/89	96	7
1818161	See Massell and		CORPMAN Philbin	454-4879	09/05/89	05/01/90	02/12/90	155	٦
1644217	19 Wassell Lane	6	MSGT George Johnson	-	09/02/89	12/15/89	12/18/89	5	DEJKP
0079797	On Wessell Lane	6	SSG . Mrs Charin	922-171R	09/05/89	12/05/89	12/08/89	6	DJKP

Capehart home MCA home Duplex (ord-story) hy Duplex (multistory) hy Apartment building Below detection limit No deta Not returned
POR ∞ ⊢⊃ OR
H Exposure < 90 days J Exact duration of exposure unknown; concentration estimated K Detector in bedroom L Detector in kitchen M Detector location unknown
Duplicate detectors Detector placed by occupant of DEH Starting date unknown Ending date unknown Detector received with no seel No date sheet Unoccupied house

Defector No.	Address	3 2	Occupants	Telephone No. (708)	Sert Date	De Por	Paceived Dete	Oursition (days)	Pamerke
643999	403 Army Trail Rd. 409 Army Trail Rd.	403	Hall Mr. Odekirk	543-0999	09/07/89	12/05/89	12/08/89	68	K P [NR]
	413 Army Trail Rd. 419 Army Trail Rd.	413	Melendez German W. Decorrevon	543-3497 543-5438	09/07/89		03/13/90	182	7 8 7 8 9
1644027	403 Natome 403 Natome	403 403	Benning Benning	543-3404 543-3404	09/0/60	01/08/90	00	123	44: 44:
645086		4 0	Rosenbaum Sutton	628-8332	09/07/89	03/08/90	03/13/90 12/08/89	182	* * T
1645087	411 Natoma 414 Natoma	444	Sheila West Henderson	832-9672	09/07/89 09/07/89	03/08/90 12/07/89	03/16/90	182	T T S
1643991	420 Natome	420	Roy	628-1397	68/20/60	03/12/90	03/15/90	186	DEJKP
1643994	423 Natoma	423	Jackie Cerrington	543-3930	68/20/60	03/10/90	03/13/90	184	Ā

Worth Army Housing Area Worth, Illinois 60463 Indoor Radon Monitoring Conditions

No.	Address	<u>\$</u> 2	Occupants	Telephone No. (708)	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Dage of	Received Date	Oursiton (days)	Permerks ^a
644020	MCA #01	10	Hatch	597-1410	68/80/60	12/08/89	12/12/89	-6	A P
\$47030	MCA #02	05	James Means	597-2293	68/80/60	12/09/89	12/12/89	92	AKP
547031	MCA #02	05	James Means	597-2293	68/80/60	12/09/89	12/12/89	92	AKP
1644021	MCA #03	03	Robert Smith	389-4786	68/80/60	05/23/90	05/56/90	168	DJKP
744004	MCA MOA	70			09/08/80	12/13/89		96	ď
44005	MCA #05	0.05	Hunt	385-7564	68/80/60	12/15/89	12/18/89	86	DEJKP
47022	MCA #06	90	Rob Johnstone	389-8512	09/08/89	05/01/90		152	Α.
1647036	MCA #07	07	Kohlmorgeh	597-4337	68/80/60	01/19/90		133	DEJKP
341506	MCA #08	80	Les Varisce	385-6261	68/80/60	12/08/89		16	g.
47027	MCA #09	60	Bessett	389-2176	68/80/60	12/14/89	12/18/89	97	EXP
44000	MCA #10	10			68/80/60				K P [NR]
1641508	MCA #11	=	Ryan	371-2711	68/80/60	12/08/89	12/08/89	91	T
1641507	MCA #12	12	Flowers	371-5627	09/08/89	12/19/89	04/05/90		K P [NR]

P Capehart home	Q MCA home	A Duplex (one-story) home	S Duplex (multistory) home	T Apartment building	U Below detection limit	NO No deta	NR) Not returned
H Exposure < 90 days	J Exact duration of exposure	unknown; concentration estimated	K Detector in bedroom	L. Detector in living room	M Detector in kitchen	N Detector location unknown	
A Duplicate detectors	B Detector placed by occupant of DEH	C Starting date unknown	D Ending date unknown	E Detector received with no seel	No deta sheet	3 Unoccupied house	

Croom Army Housing Units Croom, Maryland Indoor Radon Monitoring Conditions

Defector No.	Actiess	3 2	Occupants	Telephone No. (301)	On Contract of the Contract of	End Date	Received Dete	Oundon (days)	Remarks
643678 643993 643676	15470 Mt. Calvert Rd. 15472 Mt. Calvert Rd. 15474 Mt. Calvert Rd.	600 09 09 09 09 09 09 09 09 09 09 09 09 09	David Carl Ingram, Jr.	952-0678 954-0547 627-4807	09/11/89 09/12/89 09/12/89	01/09/90 01/27/90 01/27/90	01/23/90 02/27/90 02/27/90	120 137 137	MT KT KT
1643677 1643685 1643686	15476 Mt. Calvert Hd. 15476 Mt. Calvert Hd. 15478 Mt. Calvert Hd. 15484 Mt. Calvert Hd.	090 096 12A	Kety Witems Kimpson	627-1996 627-7416	09/11/89	02/01/90	02/27/90	142	AKT [NR] [ND] [NO]
643687 643688 1647549 1643680	15400 Mt. Calvert Rd. 15404 Mt. Calvert Rd. 15594 Mt. Calvert Rd. 15495 Mt. Calvert Rd.	048 048 048	Deborah Isaac Bebergel Baysden Wells	627-0530 627-1178 627-8349 952-1251	09/12/89 09/11/89 09/12/89 09/11/89	01/27/90 01/19/90 02/11/90 01/19/90	02/27/90 01/23/90 02/27/90 01/24/90	137 130 152 130	BBBB
1647553	15496 Mt. Calvert Rd.	040	Daniel Speller	627-9734	09/11/89	01/19/90	01/25/90	130	BNT

B Detector placed by occupant of DEH C Starting date untrnown
D Ending date untrnown
E Detector received with its seal
F No date sheet

H Exposure & Volonge
J Exact duration of exposure
unknown; concentration estimated
K Detector in bedroom

O MCA home
R Duplex (one-story) home
S Duplex (one-story) home
T Aperment building
U Below detection limit
(ND) No dete

Bedford Army Mousing Area Bedford, Massachusette 01730 Indoor Radon Monitoring Conditions

No.	Adhess	3 9	Occupants	Telephone No. (617)	Sent Dete	P 6	Received Dete	Duration (days)	Remarks
1641159	01 Lewis Rd.	10	Mark Hertel		68/80/60	10/02/89	10/05/89	24	BHKP
1641189	02 Lewis Rd.	05	Pat Boyd	275-1578	09/07/89	12/07/89	12/12/89	91	B Y
1641166	03 Lewis Rd.	03	Theodus Sanders	271-0652	09/10/89				B K P N
1641197	04 Lewis Rd.	04	Melanie Sewell	275-0519	09/07/89				K P [NR]
1641196	OS Louvie Ref	05	Nancy Graham	275-1744	69/0/60	12/24/89	12/27/89	108	ADJKP
1641170	OS Lewis Rd	05	Nancy Graham	275-1744	09/01/89	12/24/89	12/27/89	108	ADJKP
5457R5	Of Lewis Rd	90	Thomas + Lisa Scruton	275-2752	68/10/60	12/11/89	12/13/89	8	Δ.
1641187	01 Mickelson Rd.	-	Daniel Randolph		09/11/89	12/10/89	12/18/89	06	8 Y P
641160	02 Mickelson Rd.	8	David Coffey	275-4687	09/11/89	12/10/89	12/18/89	06	BKP
1641161	03 Mickelson Rd.	6		275-5745	09/10/89				BKPINE
545784	04 Mickelson Rd.	4	Carl Girson	375-5221	09/01/89	12/15/89	12/18/89	0	CDJKP
1641171	05 Mickelson Rd.	2			68/20/60	12/07/89	12/19/89	-	0. N
841178	OS Mickelson Rd	•	S. Alford		09/07/89	12/07/89	12/12/89	6	BCJNP
1641193	33 Pine Hill Rd	33	Val Buckly	275-7041	09/11/89	02/11/90	02/15/90	153	Q.
641172	35 Pine His	35	Nancy + Robert Hartins	275-4471	09/01/89	12/07/89	01/02/90	6	A T
1641175	35 Pine Hill Rd.	35	Nency + Robert Harlins	275-4471	09/01/89	12/07/89	01/02/90	6	A X
1841188	37 Dive Lill De	37	Tina Serton	275-9026	69/0/60	12/31/89	01/02/90	115	ACDJKP
641170	37 Pine Hill Bd	37	Tine Sexton	275-9026	68/20/60	12/31/89	01/02/90	115	ACDEJKP
641180	20 Dine Lik DA	30	Mora + Steven Wilking	275-5419	09/01/89	02/24/90	02/27/90	170	DEJKP

uplicate detectors
sector placed by occupant of DEH
aring date unknown
stector received with no seaf
of the sheet
of the s

MCA home
 R Duplex (one-story) home
 Duplex (multistory) home
 Apartment building
 U Below detection limit
 No dete

Beverly Army Housing Area Beverly, Messachusette 01915 Indoor Radon Monitoring Conditions

Defector No.	Address	<u> </u>	Occupants	Telephone No. (508)	Date of	£ £	Peceived Date	(days)	Remerks
0	40 Laurel St.	40							(ON)
0	41 Laurel St.	7			00,000	00.000	00000	90	200
1645807	42 Laurel St.	4 4	William Simons	921-0219	69/90/60	921-0218 03/06/69 12/21/89 01/02/90	05/20/10	5	Į Į
•	to cardia of.								
0	44 Laurel St.	=							
1645817	45 Laurel St.	45	Tony + Tammy Anderson	921-1228	68/90/60	02/02/90 02/08/90	05/08/90	152	Ą
•	AR I surrel St	46							ON
1645793	47 Laurel St.	47	Roger Koble	922-9202	68/80/60	09/08/89 12/09/89 12/12/89	12/12/89	92	BCDEJK
1645773	48 Laurel St.	4	Hice Beverly	927-5400	68/90/60	12/09/89	12/12/80	8	DJKP
0	49 Laurel St.	67							
1645808	50 Laurel St.	20	Linda Davis (Jerry)	927-8240	68/90/60	10/04/89	10/09/89	28	EHKP
1642311	51 Laurel St.	51	Martin McCall	927-2086	68/90/60	03/02/80		182	X T
0		52							Q
0		53							
1645810	54 Laurel St.	54	Cathy Greenleaf	922-3076	68/90/60	12/15/89	12/18/80	8	ADJKP
1645809		24	Cathy Greenleaf	922-3076	68/90/60	12/15/89		100	ADJKP
1845800	55 Legist 29	1C 1C	•		09/01/89	01/15/90	01/18/90	130	BCDEJKP

Duplicate detectors	Detector placed by occupant of DEH	Starting date unknown	Ending date unknown	Detector received with no seal	No data sheet	Unoccupied house
<	8	ပ	٥	ш	Ľ	O

MCA home	Duplex (one-story)	Duplex (multistory	Apertment building		No deta
0	Œ	Ø	-	-	ON
					•

K Detector in bedroom
L Detector in living room
M Detector in kitchen
N Detector location unknown

MCA hame	Duplex (one-story) home	Duplex (multistory) home	Apertment building	Below detection limit	No deta	Not returned
O	Œ	Ø	-	>	OK.	ON

Burlington Army Housing Area Burlington, Massachusetts 01803 Indoor Radon Monitoring Conditions

Defector No.	Adhess	<u> </u>	Occupents	Telephone No. (617)	Oete Defe	De e	Received Date	Ounsition (days)	Remarks
0 1641198 1641184	113 South Bedford 115 South Bedford 117 South Bedford 119 South Bedford	113	Shirley Bell SGT Berry W. Still John Wescott	272-6182 273-1734 272-2863	09/07/89 09/07/89 09/07/89	01/19/90 12/20/89	01/22/90 01/02/90	134	INDI CDJKO KQ AKQ[NR]
1641201 1641167 1641163 0		119 121 123 125	John Wescott Linda Michael Jody + Raland Hart	272-2863 273-4323 273-4663	09/07/89 09/07/89 09/07/89	01/14/90	01/17/90	129	AKO[NR] CDJKO DEJKO [ND]
0 1641192 0	127 South Bedford 129 South Bedford 131 South Bedford 133 South Bedford	129 131 133	Brigitte Dietter	229-1155		09/07/89 12/31/89	01/02/90	115	ON CONTROL
0	135 South Bedford	135							(QN)

P Capehart home	C MCA nome	(Amend) Yeldo	S Cubrex (muneraly) non	Appropriate Concerns	Description of the second name	No care	R Not returned
H Exposure < 90 days	J Exact duration of expoeure	unknown; concentration estimated	K Detector in bedroom	L. Detector in living room	M Detector in kitchen	N Detector location unknown	Z
ate detectors	or placed by occupant of DEH	g date unknown	date unknown	or received with no seal	a sheet	upjed house	

Hult Army Housing Ares Hult, Messchusetts 02045 Indoor Radon Monitoring Conditions

Detector No.	Address	S S	Occupents	Telephone No. (617)	Sert Dete	Det of	Received Dete	Oursion (days)	Remarks*
1641202	1153 Nantesket	1153	SSG Sabir & Family	925-6134	09/15/89	12/18/89	12/27/89	94	8 K P
1641186	1155 Nantasket 1157 Nantasket 1159 Nantasket	1155 1157 1159	Robin Plumlee	925-3856	09/07/89	10/03/89	10/05/89	56	HX PO
0	1161 Nantasket	1161	Bornadette Fraziar	925-4540	09/01/89	12/24/89	12/27/89	108	[ND] DJKP
643093		1165	Mary Mott	925-1043	68/10/60	12/07/89	12/12/89	91	A P
1641157		1167	Terry Johnson	925-5090	68/20/60	01/05/90	01/08/90	120	CDEJKP

C	7	
	occupent of DEH	
	I O	
	8	_
	8	Ē

Detector placed by occupent of Discontinuous Starting date unknown

Ending date unknown

Energy received with no seal

F. No data sheet

ntration estimated R com

P Capehart home
O MCA home
R Duplex (one-stary) home
S Duplex (nutlistary) home
I Apertment building
U Below detection limit
[ND] No dete
[NR] Not returned

Nahani, Massachusette 01908 Indoor Radon Monitoring Conditions

Defector No.	Address	<u> </u>	Occupients	Telephone No. (617)	Date of	3 8	Received Date	Oursilon (days)	Remarks
01645782	1	294	Barbara Hannon	ļ	68/90/60		1	3	INDI KONHI
1645772 1645783	298 Castle 300 Castle	298 300	Renee Flesher FARA Francisco Soto	593-3257 592-5223	68/90/60	12/16/89	68/61/21	5	K O [NR]
RASROS	114 Gentiner Bd	114	James Freeman	549-0772	68/90/60	12/09/89	12/12/89	76	CDJKO
545781	116 Gerdiner	116	Christine Fraser	592-1592	68/90/60	12/09/89	12/12/89	8	ADJKO
545780	116 Gardner	116	Christine Fraser	592-1592	68/90/60	12/09/89	12/12/89	76	ADJKO
1645804	001 Goddard Dr.	-	Ada King	593-8451	68/90/60	12/24/89	12/27/89	109	CDEJK
1645774	002 Goddard Dr. 003 Goddard Dr.	N 60	Tong Russo	539-4157	68/90/60	12/11/89	12/18/89	96	N N N N
0 (004 Goddard Dr.	₹ 4							
1645812	006 Goddard Dr.	n w			68/90/60				KOINH

Capehart home MCA home Duplex (one-story) home Duplex (multistory) home Apartment building Below detection firnit No deta Not returned
TOR W ► ⊃ OR
H Exposure < £9 days J Exact duration of exposure unknown; concentration estimated K Detector in bedroom L Detector in living room M Detector in kitchen N Detector in kitchen
or tements: splicate detectors sector placed by occupant of DEH enting date unknown iding date unknown sector received with no seal data sheet

Randolph, Messachusette 02368 Indoor Radon Monitoring Conditions

Defector No.	Address	3 9	Occupants	Telaphone No. (617)	Page 6	<u> </u>	Received Dete	Ounston (days)	Remarks
645822	OI Army St	6	Richard Bethoney	986-5415	09/07/89	12/19/89	12/22/89	103	CDJKP
1641190	02 Army St	05	Hector Castellano	986-8734	09/01/89				AKP [NR]
1641162	02 Army St	05	Hector Castellano	986-8734	68/20/60	01/23/90	01/26/90	138	AKP
1641191	03 Army St.	03	Victor + Kelly Herrera	961-5038	68/20/60	12/09/89	12/12/89	63	DJKP
•	O4 Army St.	04							[ND]
1641195	05 Army St.	05	Jose Barbosa	963-5307	09/01/89	01/08/90	02/19/90	123	E E
643099	06 Army St. 07 Army St.	06	William Janey	986-0125	09/07/89	12/09/89	12/12/89	6	DEJKP (NO)
1641173	Od Army St.	80	Sharon + Peter Hiemstra	986-0138	09/01/89	12/08/89	12/12/89	92	DJKP
0	OD Army St.	60							
1645778	10 Army St.	01	Fred + Robin Campbell	961-4216	09/02/89	12/15/89	12/18/89	6	DJKP
641183	11 Army St.	=	Thomas White	963-8002	09/07/89	05/01/90	02/14/90	153	Δ Q
645770	12 Army St.	. 12	Angela D. Carter	963-5945	09/01/89	12/15/89	12/18/89	66	CDEJKP
641158	13 Army St.	13	Mr.+ Mrs. Lodge	963-5204	09/01/89	12/15/89	12/18/89	66	DEJKP
0	14 Army St.	=							
1643094	15 Army St.	15		961-4741	68/80/60	12/07/89	01/02/90	8	BENP
1641177	16 Army St.	16	Travis Welden	963-8938	09/01/89	03/10/90	03/13/90	181	CJKP

A Duplicate detectore
B Detector placed by occupent of DEH
C Starting date unknown
D Ending date unknown
E Detector received with no seal
F No data sheet
G Unoccupied house

H Exposure < so carps
J Exact duration of exposure
Unknown; concentration estimated
K Detector in fiving noom
L Detector in kirchen
M Detector in kirchen
N Detector location unknown

MCA home

R Duplex (one-story) home

S Duplex (multistory) home

T Apartment building

U Below detection limit

3

Swanses, Massachuseits 02777 Indoor Radon Monitoring Conditions

Detactor No.	Adries	<u> </u>	Occupents	Telephone No. (508)	Oefe Oefe	Drafe Drafe	Peceived Date	Ounsion (days)	Remerks [®]
1644330	01 Missile Loop	10	Chyrl Troxell	675-8607	09/08/80	12/15/89	12/15/89 12/18/89	98	CDJKP
0 1644331 1644327	02 Missile Loop 03 Missile Loop 04 Missile Loop	0 0 0	Cynthia Shaglor (Grant) 677-9805 Mayra Fuentes 673-1996	677-9805 673-1996	09/08/89 09/08/89	03/10/90 12/09/89	03/13/90 12/12/89	183	KP CDEJKP
0 1643095 1643090 0	05 Missile Loop 06 Missile Loop 07 Missile Loop 08 Missile Loop	05 06 07	Pat Mark + Kattry Moriarty	678-2598	09/08/89 09/08/89	12/31/89	01/02/90	=	CDJKP CDJKP KPRNI (NO
1643078 0 1644333	00 Missile Loop 10 Missile Loop 11 Missile Loop 12 Missile Loop	100	Linda White Debbie Cassidy	677-1808	68/80/60	12/15/89	12/18/89	86	K P [NR] [ND] 0 J K P (NO]
0000	13 Missile Loop 14 Missile Loop 15 Missile Loop 16 Missile Loop	£ ± ₹ ₹ \$		•					

Duplicate detectors	H Exposure < 90 days	۵.	3
Detector placed by occupant of DEH	J Exact christion of exposure	o	Š
Starting date unknown	unknown; concentration estimated	C	H Duble
Ending date unknown	K Detector in bedroom	ග !	
Detector received with no seal	L. Detector in living room .	- :	1
No deta sheet	M Detector in kitchen	>	
Unoccupied house	N Detector location unknown	2	200
			2

Topsfield Army Housing Area Topsfield, Messachusette 01983 Indoor Radon Monitoring Conditions

No.	Address	2 2	Occupants	Telephone No. (508)	Defen.	Deta eta	Received Date	(days)	Remerks
1645786	01 Nike Village 02 Nike Village	000	Mararita Hernadez Bob Colpitts	887-8827 887-8106	68/90/60	12/06/89	12/12/89 12/13/89	95	KP OEJKP DJKP
1645816 1645795	03 Nike Village 04 Nike Village	000	Denate Perkins	887-5068	68/90/60			2	K P [NR]
1645794	05 Nike Village 06 Nike Village	00	James Drestfing John M. Christopher	887-2649 887-6302	68/90/60 68/90/60	12/10/89 01/31/90	12/13/89 02/05/90	147	O X X Y Y Y
1645790	07 Nike Village 06 Nike Village	00	David Hoover	887-3401	09/11/89	12/11/89	12/18/89	91	BEKP
1645815	09 Nike Village	60	Julie Bushell	887-9022	09/11/89	01/05/90	01/08/90	116	BOJKP
1645802 1645801 1645820	10 Nike Village 11 Nike Village 12 Nike Village	210	Deora Bumnton Carol Fortin Maria Keeton	887-3618 887-9873 887-3523	68/90/60 68/90/60	12/15/89 12/05/89	12/16/89	90	OJKP OJKP
1645788	13 Nike Village	13	Herry Hoan	887-9376 887-5546	09/60/60 68/60/60	12/09/89	12/18/89 02/12/90	150	8 8 8 7 9 7
1645814 1645787 0	15 Nike Village 16 Nike Village	5 5	Gary R. Walks	887-9435	68/90/60	02/02/90	02/08/90	152	DEJKP [NO]

A Duplicate detectors
B Detector placed by occupant of DEH
C Starting date unknown
D Ending date unknown
E Detector received with no seel
F No data sheet

H Exposure < 50 days

J Exact duration of exposure
unknown; concentration estimated
K Detector in bedroom
L Detector in kind noom
M Detector in kind noom
M Detector in kind noom

P. Capathart home
O. MCA home
R. Duplex (one-story) home
S. Duplex (multistory) home
T. Apertment building
U. Below detection limit

Wakefield Army Housing Area Wakefield, Massachusetts 01890 Indoor Radon Monitoring Conditions

Defector No.	Addess	15 2	Occupants	Telephone No. (617)	Sent Clark	Date G	Peceived Date	Duration (days)	Remarks ^a
645776		160	Paul Anderson Ted Action	942-0412	09/10/89	01/12/90	01/15/90	124	KOINH
1644326	107 Hop 002 Torra	107	P. Monisseau Carl Grover	942-1671 944-5709	09/10/89	12/30/89	01/05/90	= 6	BCJNO
1643070 1643079 1643092 1643089	006 Torrance 007 Torrance 010 Torrance 011 Torrance	00 07 110	Hobert Gunther Joe Hemandez David Holliger SFC Rivera & Family	944-1889 944-9670 944-7617 942-2143	09/10/89 09/10/89 09/10/89	12/10/89 12/17/89 12/10/89 12/31/89	12/13/89 12/22/89 12/18/89 01/03/90	98 100 100	0000
0 1643081 1642332 1644337	012 Torrance 015 Torrance 016 Torrance 020 Torrance	15 15 20	Rick Young Donna Pendergrass	942-0417 942-0089	09/10/89 09/10/89 09/10/89	12/15/89 12/31/89 12/15/89	12/18/89 01/02/90 12/18/89	96 112 96	DJKO DJKO BDJKO

Duplicate detectors Detector placed by occupant of DEH Station date informan	H Exposure < 90 days J Exact duration of exposure unknown: concentration estimated	₽ 0Œ	\$ 5 ± 5
Ending date unknown Detector received with no seal No data sheet Unoccupied house	K Detector in bedroom L. Detector in living room M Detector in kitchen N Detector location unknown.	Duply Code	No See

Franklin Lakes, New Jersey 07430 Indoor Radon Monitoring Conditions

Actives No. Occupants No. Occupants No. 1213 Partick Berns D. 213 Mr - Mrs. Discusses 327-6970 109/09/09 12/109/09 01/02/00 91 1214 Partick Brems D. 214 Mr - Mrs. Chorus Mrs. Discusses 327-6970 109/09/09 12/10/09 01/02/00 147 1215 Partick Brems D. 216 Mr - Mrs. Chorus Mrs. Discusses 327-6970 109/09/09 12/10/	Address No. Occapants No. Occapants No. (201) Little Later (1979) 213 Partick Berner Dr. 213 Mr. + Mrs. Calcon (mayor) 237-5071 09/09/89 12/09/89 01/02/89 01/02/89 147 LL1 215 Partick Berner Dr. 214 Mr. + Mrs. Calcon (mayor) 237-5970 09/09/89 12/10/89 12/13/89 147 LL1 215 Partick Berner Dr. 215 Mr. + Mrs. Calcon (mayor) 237-5970 09/09/89 12/10/89 12/13/89 147 LL1 215 Partick Berner Dr. 218 Mr. + Mrs. Calcon (mayor) 235-1661 09/09/89 12/16/89 12/13/89 17/13/89 12/13/89 12/13/89 12/13/89 12/13/89 12/13/89 12/13/89 12/13/89 12/13/89 12/13/89 12/13/89 14/13/	Actions No. Occupants No. Occupants No. Occupants No. (2011) Uses Use Use Use Use Use Use Use Use Us	Detector		3		Telephone	T	3 2	Received	Duragon (4)	Destruction
213 Partick Berns Dr. 213 Mr + Mrs. Pivers 327-6071 09/09/89 12/13/90 03/01/90 91 214 Partick Berns Dr. 214 Mr + Mrs. Charmings 327-0970 09/09/89 02/13/90 03/01/90 157 215 Partick Berns Dr. 215 Mr + Mrs. Charmings 327-0970 09/09/89 02/13/90 02/01/90 147 215 Partick Berns Dr. 216 Mr + Mrs. Colon (mayor) 825-1661 09/09/89 01/14/90 01/15/90 127 216 Partick Berns Dr. 218 Mr + Mrs. Colon (mayor) 825-1661 09/09/89 01/14/90 01/15/90 127 219 Partick Berns Dr. 219 Mr + Mrs. Colon (mayor) 825-1661 09/09/89 01/14/90 01/15/90 127 220 Partick Berns Dr. 221 Mr + Mrs. Byant 818-0016 09/09/89 12/15/89 12/18/89 97 222 Partick Berns Dr. 222 Mr + Mrs. Lupo 223 Mr + Mrs. Calon (mayor) 818-0016 09/09/89 12/14/90 01/15/90 12/18/89 97 223 Partick Berns Cl. 221 Mr + Mrs. Schf 93-09/98 12/14/99 12/16/89 97	213 Partick Brems Dr. 213 Mr. Hws. Cheminaga 327-6071 09/09/89 02/03/90 03/01/90 157 158 Mr. Hws. Cheminaga 327-6070 09/09/89 02/03/90 03/01/90 157 158 Mr. Hws. Cheminaga 327-6070 09/09/89 02/03/90 02/08/90 147 158 Mr. Hws. Cheminaga 327-6070 09/09/89 02/03/90 02/08/90 147 158 Mr. Hws. Cheminaga 327-6070 09/09/89 02/03/90 02/08/90 147 158 Mr. Hws. Colon (mayor) 825-1661 09/09/89 02/14/90 01/15/90 127 158 Mr. Hws. Colon (mayor) 825-1661 09/09/89 01/14/90 01/15/90 127 158 Mr. Hws. Colon (mayor) 825-1661 09/09/89 12/15/89 12/18/89 97 222 Partick Brems Dr. 220 Mr. Hws. Colon (mayor) 825-1661 09/09/89 12/15/89 12/18/89 97 12/25 Partick Brems Dr. 221 Mr. Hws. Colon (mayor) 825-1661 09/09/89 12/15/89 12/18/89 97 12/25 Partick Brems Dr. 221 Mr. Hws. Colon (mayor) 825-1661 09/09/89 12/15/89 12/18/89 97 12/25 Partick Brems Dr. 221 Mr. Hws. Chemina 818-1865 09/09/89 12/15/89 12/18/89 97 12/25 Partick Brems Dr. 222 Mr. Hws. Chemina 818-1865 09/09/89 12/15/89 12/18/89 97 12/25 Partick Brems Cr. 201 Mr. Hws. Chemina 818-1865 09/09/89 12/16/89 12/18/89 97 12/25 Partick Brems Cr. 202 Mr. Hws. Chemina 818-1865 09/09/89 12/16/89 12/18/89 97 12/25 Partick Brems Cr. 203 Mr. Hws. Abris Smith 818-866 09/09/89 12/15/89 12/18/89 97 12/25 Partick Brems Cr. 204 Mr. Hws. Martick Brems Cr. 205 Mr. Hws. Abris Smith 818-866 09/09/89 12/15/89 12/18/89 97 12/25 Partick Brems Cr. 205 Mr. Hws. Abris Smith 818-866 09/09/89 12/15/89 12/18/89 97 12/25 Partick Brems Cr. 207 Mr. Hws. Abris Smith 818-866 09/09/89 12/15/89 12/18/89 97 12/25 Brems Cr. 207 Mr. Hws. Peckinpanugh 934-1109 09/09/89 12/15/89 12/18/89 97 12/25 Brems Cr. 208 Mr. Hws. Peckinpanugh 934-1109 09/09/89 12/15/89 12/18/89 97 12/25 Brems Cr. 210 Mr. Hws. Vurovich 327-5417 09/09/89 12/15/89 12/18/89 97 12/25 Brems Cr. 210 Mr. Hws. Vurovich 327-5417 09/09/89 12/15/89 12/18/89 97 12/25 Brems Cr. 211 Unoccupied 22/25 Brems Cr. 212 S. Brems Cr. 212 S. Brems Cr. 212 S. Brems Cr. 213 Mr. Hws. Vurovich 327-5417 09/09/89 12/15/89 12/18/89 97 12/25 Brems Cr. 212 S. Brems Cr. 213 Mr. Hws. Vurov	215 Patrick Berns D. 216 Patrick Berns D. 217 Patrick Berns D. 218 Mr. Mrs. Decaives 219 Patrick Berns D. 220 Patrick Berns D. 220 Patrick Berns D. 220 Patrick Berns D. 221 Mr. Mrs. Dodory B.S1661 09/09/89 01/14/90 01/15/90 12/77/99 07/20/99/89 01/14/90 01/15/90 12/77/99 09/79/99/99 01/14/90 01/15/90 12/77/99 09/79/99/99 01/14/90 01/15/90 12/77/99 09/79/99/99 01/14/90 01/15/90 10/14/90 01/15/90 01/15/90 01/15/90 01/15/90 01/14/90 01/15/90 01/15/90 01/15/90 01/15/90 01/15/90 01/15/90 01	ž	Actions	<u>S</u>	Occupents	NO. (2011)	a a	3		(editor)	200
219 Partick Berms Dr. 214 Mr. + Mrs. Laminaga 327-0970 09/09/89 02/13/90 03/01/90 157 Ltd. 215 Partick Berms Dr. 215 Mr. + Mrs. Chourte 8125-4366 09/09/89 02/13/90 02/08/90 147 Ltd. 215 Partick Berms Dr. 216 Mr. + Mrs. Choro (mayor) 818-1863 09/09/89 12/10/89 12/13/89 92 Ltd. 218 Partick Berms Dr. 218 Mr. + Mrs. Choro (mayor) 825-1661 09/09/89 01/14/90 01/15/90 127 Ltd. 218 Partick Berms Dr. 219 Partick Berms Dr. 219 Mr. + Mrs. Choro (mayor) 825-1661 09/09/89 01/14/90 01/15/90 127 Ltd. 220 Partick Berms Dr. 221 Mr. + Mrs. Dooley 818-0016 09/09/89 12/15/89 12/16/90 10/15/90 127 Ltd. 222 Partick Berms Dr. 222 Mr. + Mrs. Lumpo 222 Partick Berms Dr. 222 Mr. + Mrs. Lumpo 224 Partick Berms Dr. 225 Partick Berms Dr. 227 Partick Berms Dr.	217 Bartick Bernis Dr. 214 Mr. Mar. Chaminaga 327-0970 09/09/89 92/13/90 157 10 216 Partick Bernis Dr. 215 Mr. Mar. Chaminaga 327-0970 09/09/89 02/03/90 12/13/89 157 11 217 Partick Bernis Dr. 218 Mr. Mar. Decaires 818-1863 09/09/89 12/10/89 12/13/89	215 Parick Borns D. 217 Mr. Mr. Decaines 32-297 08/09/89 02/10390 03/01/90 157 127 215 Mr. Mr. Mr. Chon/mayor 32-196 19/09/89 12/10/89 12/	030070	Daniel Brane	213	\$	327-6071	69/60/60	12/09/89	01/02/90	5	٦
215 Partick Berms Dr. 217 Mr. + Mrs. Orlounders 818-1863 09/09/89 02/03/90 02/08/90 147 215 Partick Berms Dr. 216 Mr. + Mrs. Decaires 818-1863 09/09/89 12/10/89 12/13/89 92 216 Partick Berms Dr. 217 Mr. + Mrs. Decaires 818-1863 09/09/89 12/10/89 12/13/89 92 218 Partick Berms Dr. 218 Mr. + Mrs. Colon (mayor) 825-1661 09/09/89 01/14/90 01/15/90 127 220 Partick Berms Dr. 218 Mr. + Mrs. Bryant 818-0016 09/09/89 12/15/89 12/18/89 97 222 Partick Berms Dr. 222 Mr. + Mrs. Lupo 818-0016 09/09/89 12/15/89 12/18/89 97 223 Partick Berms Dr. 222 Mr. + Mrs. Lupo 818-0016 09/09/89 12/15/89 12/18/89 97 223 Partick Berms Dr. 222 Mr. + Mrs. Kelvuth 818-0016 09/09/89 12/14/89 12/18/89 97 223 Partick Berms Cl. 222 Mr. + Mrs. Soft 934-9352 09/09/89 12/14/89 12/18/89	215 Partick Brems D. 216 Mr. Mrs. Order (1972) 62/03/90 02/03/90 147 12/15 Mr. Mrs. Order (1972) 62/03/90 12/13/99 12/15/99 12/15/99 12/13/99 92 12/15/99 12	215 Paintick Berns D. 215 Mr. AMs. Coton (mayor) 825-4366 09/09/89 12/10/89 12/13/89 92 21/16/89 21/16/89 12/13/89 92 21/16/89 2	700000	ZIS PARTY CHAIRS CO.		1	327.0970	09/09/89	02/13/90	03/01/90	157	٦
217 Partick Brems D. 216 Mr. Mrs. Colon (mayor) 825-1661 09/09/89 12/15/89 12/13/89 92 12/13/89 12/15/89 12/13/89 92 12/15/89 12/15/89 12/13/89 92 12/15/89 12/15/89 12/13/89 92 12/15/89 12/15/89 12/13/89 92 12/15/89 12/15/89 12/15/89 12/15/89 97 12/15/89 12/15/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 97 12/16/89 12/16/89 97 12/16/89 12/16/89 97 12/16/89 97 12/16/89 12/16/89 97 12/16/89 97 12/16/89 12/16/89 97 12/16/89 97 12/16/89 12/16/89 97 12/16/89 97 12/16/89 97 12/16/89 97 12/16/89 97 12/16/89 12/16/89 97 12/16/89 97 12/16/89 12/16/89 97 12/	215 Partick Berns Dr. 215 Mr.+ Mrs. Coton (mayor) 825-1661 09/09/89 12/10/89 12/13/89 92 12/15/89 12/15/89 12/13/89 92 12/15/89 12/15/89 12/13/89 92 12/15/89 12/15/8	2.17 Period Berns D. 2.18 Mr. Mrs. Torres 2.18 Period Berns D. 2.19 Period Berns D. 2.19 Period Berns D. 2.19 Period Berns D. 2.19 Mr. Mrs. Coon (mayor) 2.20 Period Berns D. 2.21 Period Berns D. 2.21 Period Berns D. 2.22 Period Berns D. 2.23 Mr. Mrs. Coon (mayor) 2.24 Period Berns D. 2.25 Period Berns D. 2.25 Period Berns D. 2.25 Period Berns D. 2.26 Period Berns D. 2.27 Period Berns D. 2.27 Period Berns D. 2.28 Mr. Mrs. Coon (mayor) 2.29 Period Berns D. 2.21 Period Berns D. 2.21 Period Berns D. 2.22 Period Berns D. 2.22 Period Berns D. 2.23 Mr. Mrs. Cool (mayor) 2.24 Period Berns D. 2.25 Mr. Mrs. Cool (mayor) 2.25 Period Berns D. 2.25 Mr. Mrs. Cool (mayor) 2.25 Period Berns D. 2.26 Mr. Mrs. Cool (mayor) 2.27 Period Berns D. 2.28 Mr. Mrs. Cool (mayor) 2.29 Period Berns D. 2.20 Mr. Mrs. Cool (mayor) 2.20 Period Berns D. 2.21 Mr. Mrs. Cool (mayor) 2.22 Period Berns D. 2.23 Mr. Mrs. Cool (mayor) 2.24 Period Berns D. 2.25 Mr. Mrs. Cool (mayor) 2.25 Period Berns D. 2.27 Mrs. Mrs. Cool (mayor) 2.26 Period Berns D. 2.27 Mr. Mrs. Cool (mayor) 2.27 Period Berns D. 2.28 Mr. Mrs. Cool (mayor) 2.29 Period Berns D. 2.29 Period Berns D. 2.20 Mr. Mrs. Cool (mayor) 2.20 Period Berns D. 2.20 Mr. Mrs. Cool (mayor) 2.20 Period Berns D. 2.20 Mr. Mrs. Cool (mayor) 2.20 Period Berns C. 2.20 Mr. Mrs. Cool (mayor) 2.20 Period Berns C. 2.20 Mr. Mrs. Mrs. Cool (mayor) 2.20 Berns C. 2.20 Mr. Mrs. Mrs. Cool (mayor) 2.20 Berns C. 2.20 Mr. Mrs. Mrs. Cool (mayor) 2.20 Berns C. 2.20 Mr. Mrs. Mrs. Cool (mayor) 2.20 Berns C. 2.20 Mr. Mrs. Mrs. Cool (mayor) 2.20 Berns C. 2.20 Mr. Mrs. Mrs. Cool (mayor) 2.20 Berns C. 2.20 Mr. Mrs. Mrs. Cool (mayor) 2.20 Berns C. 2.20 Mrs. Mrs. Mrs. Cool (mayor) 2.20 Berns C. 2.20 Mrs. Mrs. Mrs. Cool (mayor) 2.20 Berns C. 2.20 Mrs. Mrs. Mrs. Cool (mayor) 2.20 Mrs. Mrs. Mrs. Cool (mayor) 2.20 Mrs. Mrs. Mrs. Cool (mayor) 2.20 Berns C. 2.20 Mrs. Mrs. Mrs. Cool (mayor) 2.20 Mrs. Mrs. Mrs. Coo	543647	Zie Patron Diems C.	7		825.4366	09/00/60	02/03/90	02/08/90	147	٦
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212 S. Brems Ct. 212 Mr.+ Mrs. Vunovich 327-5417 09/09/89	. Brems Ct. 212 Mr.+ Mrs. Vunovich 327-5417 09/09/89	Brems Ct. 212 Mr.+ Mrs. Vunovich 327-5417 09/09/89 State of the company of the c		9110	:	Incomining						BGNPINE
	Kay to Remarks:	actors ad by occupant of DEH Unknown Inknown Inknown In Detector in Nitroen N Detector in Noteron N Detector in Noteron N Detector in Nitroen	643654	212 S. Brem	212	Mr.+ Mrs. Vunovich	327-5417	68/60/60				L P [NR]
P Evotestra v 80 days		Starting date unknown Ending date unknown K Detector in bedroom L Detector received with no seel N Detector in kirchen U Unoccupied house N Detector koats sheet N Detector koats onknown (ND)		to placed by occupant of DEH			n of exposure	•			A home	
actors H Exposure < 90 days DExact duration of exposure O	Detector placed by postucent of DEH	Ending date unknown Detector received with no seel No data sheet No data sheet U No data sheet No detector in kitchen No detector in k		ing date unknown			centration e	stimated		_	plex (one-e	tory) home
actors H Exposure < 90 days J Exact duration of exposure Unknown; concentration estimated R I	Defector placed by occupant of DEH J Exact duration of exposure O Starting date unknown	Detector received with no seal L. Detector in living room U. No data sheet. No data sheet. No data sheet. U No occupied house. N. Detector location unknown [ND]		ng date unknown			adroom				STATE AND A STATE OF THE STATE	Mary) nome
actors H. Expoeure < 90 days J. Exact duration of expoeure Unknown; concentration estimated R. Linknown K. Detector in bedroom	Detector placed by occupant of DEH J Exact duration of exposure O Starting date unknown K Detector in bedroom S S Ending date unknown K Detector in bedroom S S	No data sheet M. Detector in kritchen Unoccupied house N. Detector location unknown [ND]		ctor received with no seel			moor gui			_	or emornic countries	imit imit
bd by occupant of DEH J Exact duration of exposure Unknown Concentration estimated R I Unknown Concentration estimated S K Detector in bedroom T I Detector in fiving room I I I Detector in fiving room	Detector placed by occupant of DEH J Exact duration of argosure G R Starting date unknown K Detector in bedroom K Detector inceived with no seel L Detector in living room	Unoccupied house	-	sta sheet			Chen				dote conscion	
actors and by accupant of DEH J Exact duration of exposure O L Unknown Concentration estimated R L Detector in bedroom T L Detector in living room T L Detector I	Detector placed by occupant of DEH J Exact duration of exposure G R Starting date unknown K Detector in bedroom S K Detector received with no seel L Detector in living room U No data sheet			cupied house			TOUR DUKNOM	_				

Holmdel Army Housing Area Holmdel, New Jersey 07733 Indoor Radon Monitoring Conditions

No.	Address	3 2	Occupents	Telephone No. (201)	Sent Dete	P es	Received Date	Ountion (days)	Pernerks
	1 1	100	Mr. Mrs Forting	1	09/11/89	12/12/89	12/18/89	92	ر ه
645685	<u>E</u> :	200	Mr. Mr. Carr. Boman		09/11/89	12/11/89	12/18/89	91	-
43641	5	202	Mr. Mrs. Clone Davie		09/11/89	12/15/89	12/18/89	95	DJLP
1643238	204 Telegraph Rd.	204	Mr.+ Mrs. D'Angelo	264-2943	09/11/89	12/17/89	12/27/89	16	LP
43862	£	205	Mr. James Hayes						EN ON
43240	5	206	Mr. + Mrs. Marzella	264-9183	09/11/89	12/19/89	12/27/89	6 6 6	X X
1643244	206 Telegraph Rd. 207 Telegraph Rd.	206	Mr.+ Mrs. Marzella Mr.+ Mrs. Weber	264-9183 264-2358	09/11/89	12/19/89	12/04/89	9 6	د م د م
		•							BGNPIN
45884	8	800	Unoccupied	730.4397	09/11/89	12/15/89	12/18/89	95	DEJLP
643242	210 Telegraph Rd.	210	Mr.+ Mrs. Flemm	739-6864	09/11/89	05/16/90	05/23/90	158	ل
43241	8	211	Mr.+ Mrs. Munoz-Mareno	739-3489	09/11/89	12/11/89	12/18/89	16	LP
343649	1643649 212 Telegraph Rd.	212	Mr.+ Mrs. Adams	888-0239	09/11/89	12/15/89	03/16/90		LP

		•	Constant hon
detectors	H Expoeure < 90 days	L (
Manage by president of DEH	J Exact duration of exposure	3	MCA DOTTE
ate integral	unknown: concentration estimated	Œ	Duplex (one-s
	K Detector in hadmom	တ	Duplex (multis
	Detector in fixing mom	-	Apartment bu
BCSIVEO WITH THE BEST	M Detector in kitchen	>	U Below detection
redel	N Detector location unknown	ON	ND) No data
			Not returned

Livingston Army Housing Ares sst Henover Twp., New Jersey 07936 indoor Redon Monitoring Conditions

The state of the s		3		Telephone	T S	5	HECENEC	Criston	
	Address	2	Occupants	No. (201)	Cago	Deste	Deste	(days)	Remarks®
1	1 -	5	Instruct anneal.						BNP[NR]
3 5	norman Ct.	6	Mr + Mrs Smith	428-9487	09/12/89	12/05/89	12/22/89	8	HLP
		200	Mr + Mrs. Phillips	503-0705	09/12/89	12/19/89	12/27/89	96	<u>.</u>
645434 203 Hornung	Spring Ct.	0	Mr + Mrs. Crows	884-0567	09/12/89	05/06/90	05/09/90	147	DELP
643663 205 Ho	Hornung Ct.	05	Mr.+ Mrs. Urtiaga	515-3540	09/12/89				L P [NH]
8		90	Mrs. Annette Nash	386-9178	09/12/89	12/13/89	12/18/89	85	۵.
		07	Mr.+ Mrs. Lewis	503-0741	09/12/89	12/19/89	12/27/89	86	٠.
		08	Mr. + Mrs. Mosely	887-4613	09/12/89	12/19/89	12/27/89	86	٦
					00.000				
	Hornung Ct.	60	Mr. + Mrs. Hodriguez	386-9656	09/12/89				S N D IND
		₽:	Lyle Daniels	0000	00/07/00				
		= :	Mr. + Mrs. Imorry Gra	0/58-/98	09/12/09				P P
1645926 212 Hornung	xmung Ct.	7.7	Mr.+ Mrs. Cauderrez	0600-100	031 15103				
extone 212 Hormon	C COMMA	E.	Aeron Hell						BNP [NR]
		7	Mr + Mrs. Jorden	503-1493	09/12/89	12/12/89	12/18/89	.	۳.
		15	Mr. + Mrs. Kenific	503-0241	09/12/89	12/12/89	12/27/89	16	A.
	Hornung Ct.	16	Unoccupied						CNF
		:	Edward Dorber						BNPINE
			Mr. Mrs. Dies	884.0390	09/12/89	02/06/90	02/12/90	147	ALP
		- -	Mr. Mr. Diaz	AR4-0390	09/12/89	05/06/90	02/12/90	147	ALP
1645902 219 Hornung	Homung Ct.	6	Edward Ouigley						BNP NB
							00/1-0/07	8	0
2	Harmung Ct.	200	Mr.+ Mrs. Smith, Jr.	428-1078	09/12/89	12/18/88	69//7/71	8	ALPINE
221		2	Mr.+ Mrs. Burton	010-010	89/71/60	10/00/00	12/27/80	101	AFIP
		2.5	Mr.+ Mrs. Burton	503 00040	09/12/00	01/13/90	01/16/90	123	ADJLP
1645922 222 HG	Hornung Ct.	77	Mr. + Mrs. J. Latour	0.000	503160	5			
May to Remarks:									
A Duplicate detectors B. Detector placed by	Duplicate detectors Detector glaced by occupant of DEH	-	H Exposure < 90 days J Exact duration of ext	Exposure < 90 days Exact duration of exposure	•			Capehart home MCA home	
	inknown nknown ved with no seel		unknown; concentration K Detector in bedroom L Detector in living room M Detector in kitchen	unknown; concentration estimated Detector in bedroom Detector in fiving room Detector in kitchen	palemis		56463 50 → 02	Duplex (one-stoy) nome Duplex (multistory) home Apartment building Below detection limit	tory) home itemy) home items on limit
3 Unoccupied house	9900				_				

Livingston Army Housing Area (Cont'd) East Henover Twp., New Jersey 07936 Indoor Radon Monitoring Conditions

Detactor No.	Adhess	32	Occupants	Telephone No. (201)	Sent Celeb	Defe efe	Peceived Date	Durellon (days)	Remerks
645911	222 Hornung Ct.	22	Mr.+ Mrs. J. Latour	503-0904	09/12/89	01/12/90	01/15/90	122	ADJLP
	223 Hornung Ct.	23	Mr.+ Mrs. McCain	884-1530	09/12/89	12/31/89		110	d WCO
	224 Hornung Ct.	24	Mr. + Mrs. Chas. Jandik	884-1584	09/12/89	12/26/89		105	4
	225 Hornung Ct.	25	Mr. + Mrs. Ronald Silas	887-6478	09/12/89				L P [NR]
645028	226 Horning Ct	96	Mr.+ Mrs. L.C. Lane	884-4904	09/12/89	12/12/89	12/18/89	6	CDJLP
	227 Hornung Ct.	27	Mr.+ Mrs. Grunert	503-1363	09/12/89	12/22/89	12/27/89	101	LP
	228 Hornung Ct.	28	Unoccupied			1			B G N P [NR]
	229 Hornung Ct.	29	Charles Shores		09/13/89	01/25/90	01/29/90	134	BENP
1847473	230 Horning Ct	30	Mr.+ Mrs. Fitzpetrick	386-1338	09/12/89	12/15/89		8	DEJMP
645018	234 Homing C.	3.5	Mr + Mrs Podlaski	428-5193	09/12/89	12/13/89		85	٦
1645422	232 Hornung Ct.	35	Mr. + Mrs. Walter Hill	515-0133	09/12/89	12/16/89	12/27/89	92	٦

	Capehart home MCA home Duplex (one-story) home Duplex (mulletory) home Duplex (mulletory) home Apartment building Delow detection limit No deta No deta
	H Exposure < 90 days J Exact duration of exposure unknown; concentration estimated R Detector in bedroom L Detector in kitchen M Detector in kitchen N Detector location unknown [ND]
nerks:	is detectors r placed by occupant of DEH dete unknown r received with no seal stheet

Old Bridge Army Housing Area Old Bridge, New Jersey 08857 Indoor Redon Monitoring Conditions

No.	Actions	32	Occupents	Telaphone No. (201)	Sent Defe	Clates Clates	Received Date	(days)	Perner ks ^a
643237	201 Jake Brown	201	Mr.+ Mrs. Talbert	679-1780	09/11/89	01/14/90	02/27/90	125	ENP ON O MOD
1645424 1645906 1645904	202 Jake Brown Rd. 203 Jake Brown Rd. 204 Jake Brown Rd.	202 203 204	Unoccupied Mr.+ Mrs. Jerry Harris Mrs. Elta Stewart	679-7747 679-1748	09/13/89 09/13/89	12/17/89 12/24/89	12/27/89 12/27/89	95 102	LP DEJKP
1643638 1643656 1645929 1643639		205 205 206 207	Mrs. Lillie Bettle Mrs. Lillie Bettle Mrs. Caeserine Brown Mr.+ Mrs. Kennell	679-6166 679-6166 679-9127 679-7264	09/11/89 09/11/89 09/13/89 09/11/89	01/12/90	01/15/90	123	ALP[NR] ALP[NR] NP[NR] DJLP
1645429 1643239 1643236 1643655		208 209 210 211	Mr.+ Mrs. Scarneti Mr.+ Mrs. Munkacsy Mr.+ Mrs. Johnson Mr.+ Mrs. Tatro	679-6039 679-4153 679-8515 679-9490	09/13/89 09/11/89 09/11/89 09/11/89	12/15/69 12/11/89 12/16/89	12/1 6/89 12/18/89 12/19/89	8 0 0 8 ± 8	LPINE DJKP KP DJLP
1645438		212	Mr.+ Mrs. Houde	679-0283	09/13/89	03/04/90	03/01/90	172	DJLP

y to Remarks:

A Dupment Concord of B Defector placed by occupant of DEH C Starting date unknown

D Ending date unknown

Exact duration of exposure
 Unknown; concentration estimated

K Detector in bedroom
L Detector in living room
M Detector in kirchen
N Detector ocation unknown

P Capehart home
O MCA home
R Duplex (one-story) home
S Duplex (one-story) home
T Apertment building
U Below detection limit
[ND] No data
[NR] Not returned

Dry Hitt Army Housing Area Watertown, New York 13601 Indoor Radon Monitoring Conditions

Defector		3	•	Telaphone	T	3 2	Heceived		Presented
ž	Address	2	Occupants	No. (315)	e e	980	GBB C	(S/MD)	PERTERNA
103110	200 Carables De	230	F3 Scott		09/14/89	10/23/89	10/25/89	38	AHKP
1001	239 Cougment Or.	000	E3 6:01		09/14/89	10/23/89	10/25/89	38	AHKP
043443	239 Cougnian O.		La Court	788.6043	09/11/80	12/14/89	12/18/89	9	4
1643439	240 Cougnian Dr.	2		100 000	00/11/00	12/20/80	01/08/00	107	2
1641530	241 Coughlan Dr.	241	ES Menyman	10-701	60/11/60	50000	20000	2	
16434K9	235 Delayer Ave	236	E5 Brown	782-2090	09/14/89	01/12/90	01/15/90	120	DEJKP
642450)	236	SGT Peals	785-1020	09/14/89	12/24/89	01/05/90	101	ک
00404	227 Deleven Ave	237							<u>[0</u>
1641564	238 Deleven Ave	238	ES McGill	785-1915	09/14/89	12/13/89	12/18/89	06	a a
643413	242 Delevan Ave.	242	E5 Patton	782-4583	09/14/89	12/31/89	01/05/90	108	DEJKP
641542	243 Delavan Ave.	243	MSG Yates	788-3739	09/14/89	05/02/90	05/09/90	144	4
1641561	232 Rethburn Dr.	232	E6 Davis	785-9404	09/14/89				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1643444	233 Rathburn Dr.	233	E6 Rowley	782-1907	09/14/89	12/21/89	12/27/89	60	EKP
	And Double in De	234	SGT Morrison	782-4984	09/14/89				K P INRI
1641526	234 Fathour D.	25.04	SC Bomeau	788.2322	09/14/89	11/17/89	11/20/89	9	DHJKP
1641554	255 Hamburn Ur.	25.7	CON LOS INCO						QN
1641524	256 Rethburn Dr.	258	SP4 Fogarty		09/14/89	12/25/89	12/27/89	102	DJKP
		***	C4 Cummings	785-1001	09/14/89				K P INR
1641563	244 regroon Ave.	245							Q
1613445	248 Peenton Ave	246	SSG Events	788-0328	09/14/89	12/14/89	01/02/90	91	a.
0	247 Reardon Ave.	247							2
444565	248 Bearing Ave	248	FB Burt	788-9774	09/14/89	12/19/89	12/22/89	96	EXP
1843420	249 Reporton Ave	249	E5 Moris	782-2172	09/14/89	12/15/89	12/19/89	85	X
1641562	250 Reardon Ave.	250	E6 Sipla	782-6873	09/14/89	12/14/89	12/18/89	6	A
643422	251 Reardon Ave.	251	SP4 Jenks	785-9427	09/14/89	12/12/89	12/18/89	0	KPU
•					•				
*Key to Remarks:	marks:								
	Duplicate detectors Detector placed by occupant of DEH Starfing date unknown	I		Exposure < 90 days Exact duration of exposure unknown; concentration estimated	simated		•0 æ w	Capehart home MCA home Duplex (one-story) home Duplex (multistory) home	ory) home
Ending F Detect O Chooce	Ending date unknown Detector received with no seal No data sheet Unoccupied house		K Defector	Detector in begroom Detector in living room Detector in kitchen Detector location unknown				Apartment building Below detection limit No deta	o dia Fina Fina Fina
								TOTAL PORT	

Defector No.	Adhess	Se de	Occupants	Telephone No. (315)	Se Se	£ 2	Received Date	Duration (days)	Pernerics
1643419 1643424 1643421 1643446	252 Reardon Ave. 253 Reardon Ave. 254 Reardon Ave. 256 Reardon Ave.	252 253 254 254	A5 Ramirez SFC Mulins E5 Conner E8 Singleton	785-0174 785-9510 788-5025	09/14/89 09/14/89 09/14/89 09/14/89	12/20/89 12/14/89 12/15/89 01/04/90	01/05/90 12/18/89 12/20/89 01/08/90	97 91 112	**** ****

Manhattan Beach Army Housing Area Brooklyn, New York 11235 Indoor Radon Monitoring Conditions

No.	Address	Ž £	Occupants	Telephone No. (718)	Defe de	5 6	Dete	(days)	Remerks
645462	Ouentin	115A	Mr.+ Mrs. Moran		09/02/89	01/16/90	01/22/90	131	BNS
643183	1158 Quentin St. 116A Quentin St.	115B	Mr.+ Mrs. Negron Mr.+ Mrs. Al Sosa	769-4527 891-0446	68/90/60	12/05/89	12/08/90	06	DESU
648220	116B Quentin St.	1168							BNSINH
1645482	Quentin	1194	Sanchez					1	BNSINH
645443	Quentin	1198	Mr. + Mrs. Williams		68/90/60	12/05/89	12/05/89	0 0	CDJLSO
1648172	1208 Quentin St. 1208 Quentin St.	120A 120B	Mr. + Mrs. Luxon Mr. + Mrs. Williams	743-6327	68/90/60	12/13/89	12/19/89	- 80	เรก
648225	121A Ouentin St	121A	Mr.+ Mrs. Quinones	648-7462	68/90/60				L S [NF]
1645476	Oventin	1218	Gleicher	891-8611	10/16/89				BNSINA
648217	122A Quentin St. 122B Quentin St.	122A 122B	Unoccupied Mr.+ Mrs. Navrati		68/90/60				
BAKARA	1	1254	Mr + Mrs Remberrek	743-9262	68/90/60				L S INFI
R45473		125R	Mr + Mrs Mel auchlin	646-7040	68/90/60	12/09/89	12/12/89	94	DEJLS
648219	126A Quentin St.	126A	Unoccupied		68/90/60				GLSINA
648145	Quentin	1268	Mr.+ Mrs. Lounder	743-7442	68/90/60				LSINA
648213	Quentin	129A	Mr. + Mrs. Harris	646-8219	68/90/60			,	LS[NF]
1645471	Quentin	129B	Mr.+ Mrs. Adems	646-4381	68/90/60	12/09/89	12/12/89	76	S X
645452	130A Quentin St. 130R Quentin St	130A	Velazquez Mr + Mrs. Matos	648-8591	68/90/60	12/05/89	12/08/89	90	Dalso
							-		
1645472	131A Quentin St.	1318	Unoccupied Mr + Mrs. Hemers	646-3111	68/90/60	12/06/89	01/02/90	16	LS LS
0	Quentin	132A	Mr.+ Mrs. Steyer						[ON]
1645450	132B Quentin St.	1328							TE N
*Key to Remarks:	marks:		ŕ						
	Duplicater detectors Detector placed by occupant of DEH Starting date unknown	Ŧ	H Exposure < 90 days J Exact duration of ex unknown; concentrs	Exposure < 90 days Exact duration of exposure unknown; concentration estimated	timated		~o.c.	Capehert home MCA home Duplex (one-story) home	ory) home
D Ending E Delecto F No deta G Unoccu	Ending date unknown Detector received with no seel No date sheet Unoccupied house		K Detector in bedroom L Detector in living room M Detector in kitchen N Detector location unkn	Detector in bedroom Detector in kitichen Detector location unknown				Duplex (multistory) home Aparement building Below detection limit No dete Not returned	lory) home Iding in limit

Manhattan Beach Army Housing Ares (Cont'd) Brooklyn, New York 11235 Indoor Redon Monitoring Conditions

	14 . Mrs Birchola	891-5302	69/90/60	12/16/89	12/27/89	101	LS
		7007 570	00/00/00	12/14/80	12/18/RG	66	S
133B Quentin St.	Mr.+ Mrs. I hompson	040-4004	60/00/60	0000000	00/00/00	14	I W N I O
134 Champto St	Francis	891-0734	09/52/89	69/07/11	69/90/21	5	
1348 Quentin St.							NA S NA
		1050	09/06/80				LSINE
1845444 135A Quentin St. 135A		1000	00/00/00				GLSTA
135B Quentin St.		4100 010	60/00/60				SINE
136A Quentin St.	_	646-0318	69/90/60				NIN
136B	Mr.+ Mrs. Santana	1902-168	09/00/83				
							BNS[NR]
		A 40 CEE 4	00/48/00	12/17/89	12/27/89	06	AMS
140 Quentin St.		\$000-040		00/11/00	12/27/80	G	DSMA
140 Quentin St.	_	648-5554	69/91/60	12/11/03	60/17/7		EN V
=	Mr.+ Mrs. Jones	891-0116	68/90/60				
		742, 235.	09/06/80	12/28/89	01/02/90	113	rsn
		1000-001	00/90/00				GKSRR
145 Quentin			80/00/60	00/30/00	00/12/00	153	8
146 Quentin St.	_	934-1113	69/90/80	00/00/20	00/20/20	168	<i>y</i> :
147	7 Mr.+ Mrs. Cruzado	/43-2423	69/00/60	06/81/70	2010)
	Maria Maria	769.7611	68/90/60	12/08/89	12/18/89	6	nsı
148 Cuentra St.							E SOZY
1645470 149 Quentin St. 149							P N SINH
149 Quentin St.			00,000	00175700	09/00/00	171	S
150 Quentin St.	0 MAJ.+ Mrs. Bein	332-2645	89/90/80	06/62/20	2000)
•		616 8675	08/30/00	11/20/89	12/04/89	75	HLS
200		2/00-040					
152 Quentin St.		646-03/1					S. C.
155 Quentin	_						
1648164 156 Quentin St. 156	6 Mr.+ Mrs. Diaz	891-4297	68/90/60				

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Manhatten Beach Army Housing Area (Cont'd) Brooklyn, New York 11235 Indoor Radon Monitoring Conditions

Mo. (719) Uses Us		seapp	2	•					, ,	D. Married B.
157 Quentin St. 157 Mr + Mrs. Smrtgairs 157 Quentin St. 158 Mr + Mrs. Smrtgairs 158 Quentin St. 158 Mr + Mrs. Smrtgairs 158 Quentin St. 158 Mr + Mrs. Gacdy 159 Gacdy 120				Occupents	No. (/18)	e e e			(s/mo)	NGT IGNI
1548 Quentin St. 158 MA- Manibuson 159 (1778) 12/18/189		entin St.	157	Mr.+ Mrs. Senquiz	646-7615	68/90/60				LSINR
162A Cuentin St. 162A Roberson 162A Cuentin St. 162A Roberson 162A Cuentin St. 162B Rx - Mx. Rx		entin St.	158	MAJ Manibuson		09/01/89	12/18/89	01/08/90	102	DSNCO
(E2A Quentin St. 162A Robertson 769-6019 09/06/89 12/06/89 12/12/89 91 (E2A Quentin St. 162B Hx - Mx. Rivere 769-6019 09/06/89 12/06/89 12/12/89 91 (E4A Quentin St. 164A Robies Robies 64-6424 09/06/89 01/02/90 01/05/90 118 (E6A Quentin St. 164A Robies 646-6322 09/06/89 02/07/90 02/19/90 154 (E6A Quentin St. 170A Quentin St. 181A Mr. + Mrs. Standawicz 991-6530 Qs1/06/89 Qs1/06/89 Qs1/06/89 Qs1/06/89 Qs1/06/89 Qs1/06/89 Qs1/06/89 Qs1/06/89 Qs1/06/89		uentin St.	162A	Roberson						N N N N N
1628 Quentin St. 162B NF+Ms. Rivera 769-6019 09/06/89 12/06/89 12/12/89 91 164A Quentin St. 164B Robbes 164 Robbes Robbes 164 Robbes	162B 164A 164B 166A	ventin St.	162A	Roberson						ABNOINH
Fig. Committed St. Fig.	1648 1648 1668		1628	Mr + Mrs Rivers	769-6019	68/90/60	12/06/89	12/12/89	9	١s
1648 Cuentin St. 1648 W+ Mr. Gates 646-8424 09/06/89 01/02/90 01/05/90 154 1668 Cuentin St. 1668 W+ Mr. Smart 646-5322 09/06/89 12/04/89 12/07/89 154 1708 Cuentin St. 1708 W+ Mr. Smart 046-5322 09/06/89 12/04/89 12/07/89 189 1738 Cuentin St. 1738 W+ Mr. Smrgerit 09/06/89 12/06/89 12/08/89 12/08/89 12/08/89 12/08/89 1738 Cuentin St. 1738 W+ Mr. Smrgerit 09/06/89 12/08/89 12/08/89 12/08/89 12/08/89 12/08/89 1738 Cuentin St. 1754 Unoccupied 09/06/89 12/08/89 12/08/89 12/08/89 12/08/89 12/08/89 12/08/89 1758 Cuentin St. 1758 W+ Mr. Smrderitz	1648 166A		1644	Robles						BNS[NR]
1668 Cuentin St. 1668 Mr + Mrs. Smart 646-5322 09/06/89 02/07/90 02/19/90 154 1668 Cuentin St. 1668 Mr + Mrs. Smart 646-5322 09/06/89 12/04/89 12/07/89 89 1738 Cuentin St. 1738 Mr + Mrs. Sargeant 934-608 09/06/89 12/05/89 12/08/89 12/08/89 1738 Cuentin St. 1738 Mr + Mrs. Caudatupe 646-1787 09/06/89 12/08/89 12/08/89 12/08/89 12/08/89 12/08/89 12/08/89 1738 Cuentin St. 1758 Mr + Mrs. Halvorseri 934-099 09/06/89 12/08/89 12	166A		164R	Mr + Mrs Galos	646-8424	68/90/60	01/02/90	01/05/90	118	DEJLS
1568 Quentin St. 1568 Mr. + Mrs. Smart 646-5322 09/06/89 12/04/89 12/07/89 89 17/08 Quentin St. 1704 Hernander 1738 Quentin St. 1734 Unoccupied 1754 Quentin St. 1754 Unoccupied 1755 Quentin St. 1755 Unoccupied 1755 Quentin St. 1756 Unoccupied 1756 Quentin St. 1756 Unoccupied 1778 Quentin St. 1756 Unoccupied 1778 Quentin St. 1769 Unoccupied 1778 Quentin St. 1778 Unoccupied 1778 Quentin St. 1878 Unoccupied 1778 Quentin St. 1778	991	ventin St.	166A	Mr.+ Mrs. Gaddy	769-4201	68/90/60	05/01/90	05/19/90	154	KSU
166B M+-Mks. Smart 646-5322 09/06/89 12/04/89 12/07/89 69 1734 Quentin St. 1734 Mr. Hks. Droney 1734 Quentin St. 1734 Unoccupied 945-5134 09/06/89 12/04/89 12/07/89 89 1734 Quentin St. 1734 Unoccupied 09/06/89 12/05/89 12/05/89 12/08/89 12/08/89 80 1734 Quentin St. 1734 Unoccupied 09/06/89 12/06/89 12/06/89 12/08/89 12/08/89 12/08/89 80 1754 Quentin St. 1734 Unoccupied 09/06/89 12/06/89 12/08/89 12/06/89 12/08/89 12/08/89 12/08/89 80 1755 Quentin St. 1754 Unoccupied 09/06/89 12/06/89 12/08/89 12/08/89 12/08/89 12/08/89 12/08/89 81 1756 Quentin St. 1754 Unoccupied 09/06/89 12/06/89 12/08/89 12/08/89 12/08/89 12/08/89 12/08/89 81 1756 Quentin St. 1754 Unoccupied 09/06/89 12/06/89 12/06/89 12/08/89 12/08/89 12/08/89 12/08/89 12/08/89 12/08/89 12/08/89 12/08/89 81 1758 Quentin St. 1758 Brown 1778 Quentin St. 1784 Quentin St. 1784 Mr. Hks. Stanklewicz 1784 Quentin St. 1788 Kintchen 81-06/89 12/08/89 12/12/89 12/12/89 94 1818 Quentin St. 1818 Vestor In St. 1828 Quentin Nichemer 99-06/88 PAR PA	1660									
1708 Quentin St. 1704 Hermanos 1704 August 1705 Quentin St. 1706 Quentin St. 1708 Quentin St. 1709 Quentin St.	000	venth St.	1668	Mr.+ Mrs. Smart	646-5322	68/90/60				
170B Quentin St. 170B Quentin St. 170B Mm + Mrs. Unorcupied 947-5134 94705/89 12/04/89 11/04/89	170A	ventin St.	170A	Hemandez	1012	00,000	00/10/01	00/20/61	9	
173A Quentin St. 173A Quentin St. 173A Quentin St. 173A Quentin St. 173B Mr + Mrs. Sargeant Opening St. 934-6080 09/06/89 09/06/8	1708	uentin St.	1708	Mr.+ Mrs. Uroney	845-5134	69/90/60	50/4/03	60110/21	60	S C C C
1738 Quentin St. 1738 Quentin St. 174A Unoccupied Unoccupied St. 174A Quentin St. 174A Unoccupied	173A	ventin St.	173A	Unoccupied		68/90/60				de o land
174A Quentin St. 174A Unoccupied 09/06/89 12/08/89 12/08/89 12/08/89 90 174B Quentin St. 175A Quentin St. 177A Quenti	1738		1738	Mr.+ Mrs. Sargeant	934-6080	68/90/60				LS[NF]
174B Cuentin St. 175A Unoccupied 646-1787 09/06/89 12/05/89 12/05/89 12/08/89 90 175A Quentin St. 175A Quentin St. 175A Quentin St. 175A Quentin St. 177A Quentin St. 177A Quentin St. 177A Quentin St. 177B Quentin St. 17	174	trentin St	174A	Unoccupied		68/90/60				GLSINH
175A Quentin St. 175B Quentin St. 177A Roccupied 09/06/89 12/06/89 12/08/89 91 177B Quentin St. 187B	174B	uentin St	1748	Mr. + Mrs. Guadalupe	646-1787	68/90/60	12/05/89	12/08/89	08	DLS
175A Quentin St. 175A Quentin St. 175B Quentin St. 176A Quentin St. 177A Roach/ Unoccupied Office St. 1976B Quentin St. 177B Quentin St. 178B Quentin St. 181B Quentin St. 178B Quentin St. 178B Quentin St. 181B Quentin St. 181B Quentin St. 181B Quentin St. 181B Quentin St. 182B Quentin St. <td< td=""><td>175A</td><td>ventin St.</td><td>175A</td><td>Unoccupied</td><td></td><td>68/90/60</td><td></td><td></td><td></td><td>AGLSINH</td></td<>	175A	ventin St.	175A	Unoccupied		68/90/60				AGLSINH
1758 Quentin St. 1758 Mr + Mrs. Hahorzert 934-0991 09/06/89 12/06/89 12/08/89 91 1768 Quentin St. 1764 Unoccupied Unoccupi	1764		175A	Inoceinied		68/90/60				AGLSINH
1768 Quentin St. 1764 Unoccupied 09/06/89 1768 Quentin St. 1778 B Unoccupied 09/06/89 1778 Quentin St. 1778 B Brown 1778 B Brown 1778 Quentin St. 1778 B Brown 1778 B Brown 1788 Quentin St. 1778 B Cuentin St. 1778 B Brown 1784 Quentin St. 1778 B Kinichen 1778 B Kinichen 1788 Quentin St. 1818 A Kinichen 1818 C Mr+ Mrs. Valentin 891-6530 1828 Quentin St. 1818 D Vesquez 1818 D Vesquez 1828 D Vesquez 1828 Quentin St. 1828 D Vesquez 1828 D Vesquez 1828 Quentin St. 1828 D Vesquez 1828 D Vesquez 1828 Quentin St. 1828 D Vesquez 1828 D Vesquez 1828 Quentin St. 1828 D Vesquez 1828 D Vesquez 1828 Quentin St. 1828 D Vesquez 1828 D Vesquez 1828 Q Vesquez 1828 D Vesquez 1828 D Vesquez 1828 D Vesquez 1828 D Vesquez 1828 D Vesquez 1828 D Vesquez 1828 D Vesquez 1828 D Vesquez 1828 D Vesquez 1828 D Vesquez 1828 D Vesquez <t< td=""><td>175A</td><td></td><td>1758</td><td>Mr.+ Mrs. Halvorsed</td><td>934-0991</td><td>68/90/60</td><td>12/06/89</td><td>12/08/89</td><td>91</td><td>L S</td></t<>	175A		1758	Mr.+ Mrs. Halvorsed	934-0991	68/90/60	12/06/89	12/08/89	91	L S
176B Cuentin St. 176B Unoccupied 09/06/89 113 177A Quentin St. 177A Quentin St. 177A Quentin St. 177B Guentin St. 187B Guentin St. <td>176A</td> <td>Lentin St</td> <td>176A</td> <td>Unoccupied</td> <td></td> <td>68/90/60</td> <td></td> <td></td> <td></td> <td>GLSINA</td>	176A	Lentin St	176A	Unoccupied		68/90/60				GLSINA
1778 Quentin St. 1789 Brown 1788 Quentin St. 1789 Kintchen 10/29/89 02/19/89 02/26/90 113 1788 Quentin St. 1784 Quentin St. 1818 Quentin St. 1828 Quentin St. 1828 Quentin St. 1828 Quentin St. 1829 Quentin St. 1829 Quentin St. 1824 Quentin St. 1824 Quentin St. 1824 Quentin St. 1826 Quentin St. 1826 Quentin St. 1826 Quentin St. 1828 Quentin St. 1828 Quentin St. 1829 Quent	176B	benth St.	1768	Unoccupied		68/90/60				GLSINA
1778 Quentin St. 1778 Guentin St. 1784 Mr.+ Mrs. Stanklewicz 743-0807 09/06/89 12/28/89 01/25/90 113 1788 Quentin St. 1788 Kintchen 1788 Guentin St. 1818 Guentin St. 1818 Guentin St. 1828 Guentin		4	444	,						LSINE
1768 Quentin St. 1768 Mr.+ Mrs. Stanklewicz 743-0807 09/06/89 12/28/89 01/25/90 113 1788 Quentin St. 1788 Mr.+ Mrs. Stanklewicz 743-0807 09/06/89 12/28/89 01/25/90 113 1818 Quentin St. 1818 Vasquez 1828 Quentin St.				NOBCH C		10/20/80	02/10/00	02/26/90	113	SNS
1788 Quentin St. 1788 Kintchen 1788 Quentin St. 1788 Quentin St. 1788 Quentin St. 1814 Mr. + Mrs. Valentin St. 1818 Quentin St. 1818 Vasquez 1824 Quentin St. 1824 Quentin St. 1828 Quentin St. 1828 Quentin St. 1828 Quentin St. 1829 Quentin St. 18		Mental of.	1784	Mr. Mr. Stanklander	743,0907	09/09/00	12/28/89	01/25/90	113	LSU
181A Quentin St. 181A Mr. + Mrs. Valentin 891-6530 09/06/89 12/12/89 94 181B Quentin St. 181B Vesquez 181B Vesquez 182A Mr. + Mrs. Gonzalez 891-1051 09/06/89 02/12/90 153 182A Quentin St. 182B Quentin St. 182B Unoccupied 09/06/89 02/06/99 02/12/90 153 Immediate Compania of Defenciors of place o	178R	tuentin St.	1788	Kintchen						BNSINE
1814									3	
1818 Cuentin St. 1818 Vasquez 1824 Cuentin St. 1828 Mr.+ Mr. Gonzalez 891-1051 09/06/89 02/12/90 153 1828 Cuentin St. 1828 Unoccupied 09/06/89 02/06/89 Capatrart home 1828 Cuentin St. 1829 Unoccupied 09/06/89 02/06/89 Capatrart home 1 Exposure < 90 days are detectors or placed by occupant of DEH 1820 University of eater university of date university o	101	Ventin St.	1818	Mr. + Mrs. Valentin	891-6530	68/90/60	12/09/89	12/12/89	*	RNSINE
Interest of the first of the fi	1818	Dentin St.	1818	Vasquez	1307 100	00100100	00/30/00	09/17/00	153	181
TREE Culentin St. 1829 Unoccupied St. 1829 Uno	1824	Dentin St.	V291	WE + MES. GONZENGZ	1001-160	08/90/00	06/00/30	05.12.0	}	GLSINE
ectors H Exposure < 90 days ed by eccupant of DEH Unknown H Exposure < 90 days J Exact duration of exposure Unknown K Detector in living room L Detector in living room T M Detector in kitchen	1850	John St.	9791	Onoccupied						
Duplicate detectors Detector placed by occupant of DEH Starting date unknown Ending date unknown R Detector in bedroom C Detector in wing room C Detector in wing room N Detector in kitchen N Detector in kitchen	*Key to Remarks:									
Detector placed by occupant of DEH J Exact duration of exposure Starting date unknown Ending date unknown R Detector in bedroom L Detector in living room No data sheet M Detector in kitchen		*			O days			J	sehart hom	•
Starting date unknown Ending date unknown C Detector in living room C Detector in living room No data sheet M Detector in kitchen		by occupant of DE	T		en of exposure				A home	
Ending date unknown K Detector in bedroom S T Detector in living room T Objector received with no seal L Detector in living room C U No data sheet		known		unknown; co	ncentration es	stimated			Nex (one-s	tory) home
Detector received with no seal L. Detector in Wing room U. No data sheet		known			edroom				Sex (munic	Hory) nome
No data sheet	_				moor guir			_		E Enit
	_				Ichen				de Company	

Defector No.	Address	32	Occupants	Telephone No. (516)	Sent	Dete ete	Peceived Date	Chays)	- Hermanto
RAKAKS	Of Defence Hill Rd	10	Mr.+ Mrs. Shultz	929-3941	09/07/89			1	L P [NR]
645474	02 Defense Hill Rd.	05	Mr. + Mrs. Esposito	929-4498	68/20/60	12/06/89	12/06/89 12/12/89	06	CKDMO
645487	03 Defense Hill Rd. 04 Defense Hill Rd.	0 0	Unoccupied Mr.+ Mrs. Zingery	929-6373	09/0/89	12/07/89	12/12/89	16	LP LP
		č	Mr. Mr. Dorry	929-3668	09/07/89	12/10/89	12/18/89	6	ALP
643164	Co Ceterate Tall TG	2 6	Mr. Mr. Perry	929-3668	68/0/60	12/10/89	12/18/89	94	ALP
645481 645481 645454	05 Defense Hill Rd. 07 Defense Hill Rd. 07 Defense Hill Rd.	900	Mr.+ Mrs. O' Brien	929-4569 929-6980	09/07/89	12/09/89	12/12/89	66	DJLP LP[NR]
1645469		80	Mr.+ Mrs. Chatman	929-6537	09/07/89	12/18/89	12/27/89	102	Y P
645480	09 Defense Hilf Rd. 10 Defense Hilf Rd.	60 -	Mr.+ Mrs. Bowyer Mr.+ Mrs. Johnson	929-4970	09/0/80				L P RR
648148		Ξ	Mr.+ Mrs. Pierce	929-5472	09/07/89	12/18/89	12/22/89	102	<u>ب</u>
645467	12 Defense Hill Rd.	12	Mr.+ Mrs. Oropez	929-5820	09/07/89	05/01/90	02/14/90	153	L P
648144	13 Defense Hill Rd. 14 Defense Hill Rd.	C 4 4	Mr.+ Mrs. Rickoff Mr.+ Mrs. Radfein Mr.+ Mrs. Rottone	929-3659 929-5697 929-5812	09/07/89	12/08/89	12/12/89	95	KP NP
04244	16 Defende	. 4	Mr.+ Mrs. Delgado	929-6154	09/02/89	12/08/89	12/22/89	92	LP

Spring Valley, New York 10977 Spring Valley, New York 10977 Indoor Radon Monitoring Conditions

Defector No.	Actress	<u>¥</u> 2	Occupants	Telephone No. (914)	Sent Date	End Date	Peceived Date	(days)	Remarks
645889	201 Grandview Ave.	201	Unoccupied		68/80/60	05/10/90	02/10/90 02/14/90	155	GKP
	202 Grandview Ave. 203 Grandview Ave. 204 Grandview Ave.	202 203 204	Isaacs Mr. + Mrs. Harvey Mr. + Mrs. Wilsey	354-2460 354-8034	68/80/60 68/80/60	12/24/89	12/27/89	107	8 N P [NR] 0 X P X P [NR]
647465	205 Grandview Ave. 205 Grandview Ave.	205	Mr.+ Mrs. Stukes Mr.+ Mrs. Stukes	354-1159	68/60/60		12/27/89	86	ALP [NR] ALP
647466	206 Grandview Ave. 207 Grandview Ave.	206	Mr.+ Mrs. Venzor Mr.+ Mrs. Kushner	354-5195 362-3157	68/60/60 68/60/60	12/10/89 01/09/90	12/18/89	92 122	LP
1645872 1647470 1645870 1647475	208 Grandview Ave. 209 Grandview Ave. 210 Grandview Ave. 211 Grandview Ave.	208 209 210 211	Mr.+ Mrs. Shook Mr.+ Mrs. Morales Mr.+ Mrs. Gerey Mr.+ Mrs. Uson	362-1899 362-1848	09/08/89 09/09/89 09/08/89	02/08/90 01/03/90 02/09/90	02/19/90 01/17/90 02/23/90	153 116 154	LP BNPU NP BNP[NR]
	212 Grandview Ave.	212	Mr.+ Mrs. Perez	354-9851	68/60/60	02/08/90	02/19/90	152	LP

No.	Address	3 8	Occupents	Telephone No. (914)		P ee	Peceived Date	Ounston (days)	Pernerks*
645887	423 Bogart Place	423	Unoccupied		68/80/60				GKPINA
645477	Bogert P	424	Mr.+ Mrs. Ralph		68/80/60	00,000	00120101	č	ב ב ב
645865	425 Bogart Place	425	Mr. + Mrs. Sienko	359-4958	68/80/60	12/08/89	12/2//89	5	
1645878	426 Bogart Place	426	Mr.+ Mrs. Cronin	365-3325	68/80/60				
	497 Breed Dans	127	Mr + Mrs Shoemaker	328-0092	68/90/60	12/08/89	01/05/90	-6	LP
045501	TO CHANGE OF	420	Mr. Mr. Boharts	365-2748	68/80/60	02/16/90	02/19/90	161	DJLP
1042883	105 Greenbush Bd	430	Mr + Mrs. Brown, Jr.	359-5274	69/80/60	12/11/89	12/18/89	94	٦
1645892	211 Greenbush Rd.	428	Stewart		10/16/89	05/03/30	05/19/90	116	9 N B
	And I salessee of	401	Unoccuoied						(N)
947476		402	Mr + Mrs. Bates	365-3172	68/80/60	01/02/90	01/05/90	116	DJLP
647472	adave the	403	Mr.+ Mrs. Gonzales	365-2116	69/80/60	02/11/90	02/14/90	156	1 P
645880	404 Lafayette St.	404	Mr.+ Mrs. Dobson	359-2788	68/80/60	05/16/90	05/19/90	161	DEJLP
645874	405 I afavatta St	405	Man						K P [NR]
645881	406 Lafavene St	406	Mr.+ Mrs. Edge	777-2637	68/90/60				
645894	407 Lefavette St.	407	Mr.+ Mrs. Gilbert	359-6113	09/08/89			6	<u>Y</u>
645857	408 Lafayette St.	408	Mr.+ Mrs. Jarvis	365-2898	68/80/60	12/10/89	12/18/89	2	
845896	409 Lafavelle St.	409	Walter					. (PNP PNB
1645877	410 Lafayette St.	410	Mr.+ Mrs. Butler	359-8475	08/90/60	12/08/89	12/12/89		
1645457	-	114	Stella				00120101	•	
1645875		412	Mr.+ Mrs. Parker	359-3364	68/90/60	12/18/89	12/2//69	5	2
		413	Uncounied		69/90/60	01/07/90	01/10/90	121	ADGJKP
1648143	A 13 Lafavette Sc.	413	Unoccupied		68/90/60	01/02/90	01/10/90	121	ADGJKP
1648141	Lefevelle	414	Abraham						
	- Same	415	Unoccupied		68/80/60				CAT TAN

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K Detector in bedroom
L Detector in living room
M Detector in kitchen
N Detector location unknown

Tappan Army Housing Area (Cont'd)
Tappan, New York 10983
Indoor Radon Monitoring Conditions

Defector No.	Address	5 2	Occupants	Telephone No. (914)	Start Date	De e	Received Date	(days)	Remarks
00000	S change 1 414	416	Mr + Mrs Bari	365-7921	68/60/60	12/08/89	02/27/90	8	٦,
645656	A 10 Latayette of.	447	Mr. Mrs. leffers	365-0388	68/80/60	10/17/89	10/20/89	38	HLP
04/4/4	And Laters of	7	Mr + Mrs Weeden	359-8118	68/80/60	12/12/89	12/19/89	95	٦
645883	431 Lafayerte St.	432	Mr. + Mrs. Giannetti	359-8272	68/80/60	12/08/89	12/18/89	91	A K P
	3	5	Mr. 14s Cinnotti	350.8272	09/08/RG	12/08/89	12/18/89	16	AKP
245860	ASZ Latayette St.	200	Mr. Polis Conners	365.1101	09/08/80	12/24/89	12/27/89	107	DEJLP
1645876	433 Larayene St.	77	Ms. Cons Coperia	365.0645	09/08/80	12/09/89	12/12/89	92	DEJLP
645879 645867	434 Lateryette St. 435 Lateryette St.	435	Mr.+ Mrs. Cossel	365-2166	68/80/60	12/16/89	12/27/89	66	LP
	,	967	Mr. Mrs Condo	359-6939	09/08/89	12/12/89	12/18/89	92	ALP
1648169		436	Mr + Mrs. Conde	359-6939	68/80/60	12/12/89	12/18/89	92	ALP
845869	215 Wes	421	Mr.+ Mrs. Horn	365-0443	68/80/60			:	EN G
645859	221 Western Highway	450	Mr.+ Mrs. Keane	365-1687	68/80/60	05/06/20	02/14/90	154	4
845868		418	Peters		1				FNICK
1645895	419 Wes	419	Unoccupied		10/02/89	05/19/90	02/27/90	140	SNO

Defector No.	Adhess	3 2	Occupants	Telephone No. (412)	See of	Pe 22	Received Date	Ounton (days)	Remarks
1436005	S1180 Fuinds Mil	118	Rosalina Rodriguez	264-1666	09/13/89	12/15/89	12/18/89	63	DJKP
1436038 1436033	S1190 Ewings MR Rd. S1200 Ewings MR Rd. S1210 Ewings Mil Rd.	119 120 121	Tammy Vankirk Linda Bittay Sandy Parrish	264-7858 264-5741 262-3421	09/13/89 09/13/89 09/13/89	12/18/89	12/27/89 12/18/89	98	7 4 7 0 0 2 KP
1436093	91220 Ewings	122	John Hudson	262-9418	09/13/89	12/15/89	12/18/89	93 601	DJKPCDJKP
1436058 1436037	S1230 Ewings Mill Hd. S1240 Ewings Mill Rd. S1240 Ewings Mill Rd.	124	Laurie Nichols Laurie Nichols	264-6209 264-6209	09/13/89	12/24/89	12/27/89	102	ADJKP ADJKP

Elizabeth Army Housing Area Elizabeth, Pennsylvania 15037 Indoor Radon Monitoring Conditions

No.	Address	<u> </u>	Occupants	Telephone No. (412)	Seart	Date Date	Peceived Date	Duration (days)	Remerks
1643222	S730 Route #4 S740 Route #4	73	Larry Howland Lorra Hess	384-9321 384-2483	09/12/89 09/12/89	12/19/89	12/22/89	112	KOBCDJLP
1643189		75 76	Maria P. Sisk	384-4693	09/12/89	12/12/89	01/12/90	6	A P
1643188 1643232 0	S770 Route #4 S780 Route #4 S790 Route #4 S800 Route #4	77 78 79 79	Mr. + Mrs. Lactuke Linda Hemandez	384-8104 384-2999	09/12/89 09/12/89	12/13/89	12/18/89	95	X Y NY (NY (NY (NY (NY (NY (NY (NY (NY (N
1643199 1643211 1643212	S810 Route #4 S820 Route #4 S830 Route #4	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Frank Heasley SGT Joseph Davis PO Jefferey Edens	384-0747 384-2824	09/12/89 09/12/89 09/12/89	12/12/89 12/14/89 12/24/89	12/18/89 12/18/89 12/27/89	93	EKP BLP OJKP

Capehart home MCA home Duplex (one-story) home Duplex (multistory) home Apertment building Below detection limit No deta Not returned
FOR N-JOR
H Exposure < 90 days J Exact duration of exposure unknown; concentration estimated K Detector in bedroom L Detector in king room M Detector in kitchen N Detector location unknown
Duplicate detectors Duplicate detectors Defector placed by occupant of DEH Starting date unknown Ending date unknown Detector received with no seal No data sheet Unoccupied house

No do	Address	<u>\$</u> 2	Occupants	Telephone No. (412)	Orate Date	Date Code	Peceived Date	Duration (days)	Remarks
643214	S065O Route #4	80.5	Betty Ferguson	348-7725	09/12/89	12/17/89	12/22/89	96	A .
1643200	S086Q Route #4	98	Lenny Rose	348-6108	09/12/89	12/12/89	12/18/89	91	K K F F KR
643229	S0870 Route #4 S0880 Route #4	88	Mattie Henderson Theresa Hutchinson	348-4721	09/12/89	11/29/89	12/04/89	78	HKP
643228	S069Q Route #4	68	,		09/12/89	12/24/89	12/27/89	103	BOEJKP
1643195 1643204 1643223	S0900 Route #4 S0910 Route #4 S0920 Route #4	90 91 92	Gore Debbie Weyandt Roger L. Muntes	348-6102 348-7876	09/12/89 09/12/89 09/12/89	12/24/89 02/05/90	12/27/89 02/14/90	103	8 X 8 X 8 X 8 X 8 X 8 X 8 X 8 X 8 X 8 X
1643226 1643216 1643187 1643230	S0930 Route #4 S0940 Route #4 S0950 Route #4 S0960 Route #4	9 9 9 9 6 4 73 70	John Henderson Jose Figueroa Allen Williams Mr.+ Mrs. Kickenbacker	348-5004 348-5475 348-4471 348-4809	09/12/89 09/12/89 09/12/89 09/12/89	12/12/89 12/15/89 12/12/89	12/18/89 12/18/89 12/13/89	220	S S S S S S S S S S S S S S S S S S S
1643201	5097G Route #4 5086G Route #4	90	Johnnie Fullwood Rita Trusty	348-7067 348-8439 348-7794	09/12/89 09/12/89	12/15/89 12/12/89	12/18/89 12/18/89	94	O S S S S S S S S S S S S S S S S S S S
1643202	S1000 Route #4	100	Christa Haggerty	348-7572	09/12/89	12/15/89	12/18/89	94	BOJKP

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Finieyville, Pennsylvania 15332 finieyville, Pennsylvania 15332 indoor Radon Monitoring Conditions

Selector So.	Actron	3 2	Occupants	Telephone No. (412)	Sert Care	2 €	Peceived Dete	Duration (days)	Remarks
1	S1010 Route #4	101	David Cote		09/12/89	12/18/89	12/27/89	97	X 0
1643227	S102O Route #4	102 103	Ben Zarate	348-7223	09/12/89	12/15/89	01/02/90	110	DEJKP
	S1040 Route #4	104	Cindy Ruffing	348-5150	09/12/89	12/12/89	12/27/89	6	a Y
	S1050 Route #4	105	Brenda Favalord	348-4513	09/12/89	12/24/89	12/27/89	103	DJKP
	S106Q Route #4	106	The Abit	240 4053	09/13/69	01/11/10	01/19/90	121	BELP
1643233	S1070 Route #4	108	Mr.+ Mrs. Abiri Dale Elis	200-0-0	09/12/89	01/02/90	01/08/90	115	BDEJKP
543190	S1090 Route #4 S1100 Route #4	109	Bobby Brown Carla Stargen	348-5659 348-4838	09/12/89 09/12/89	12/24/89	12/27/89	103	K P NR
1643221	S111Q Route #4	111	Can't read name	348-8471	09/12/89	12/09/89	12/12/89	88	BOEJKP

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MCA hame	Duplex (one-story) home	Duplex (multistory) home	Apartment building	Below detection limit	No deta	Not returned	
o	Œ	S	-	>		Z Z	

Herminie, Pennsylvania 15642 Indoor Radon Monitoring Conditions

Detector	į	3	4	Telephone	Tag a	E E	Received	Charles (days)	Remerks
<u>s</u>	Activess	2	au Balman	140. (41E)					
	PO RO STATE OCS	27	Lori Dietz	446-1560	09/12/89	05/02/90	05/09/90	146	g S
	COLOR MARIE DA	. a	Brichet Folkes	446-1548	09/12/89	12/12/89	12/18/89	91	AEKP
	SOOT MEETS THE TOTAL	9 4	Bridget Folker	446-1548	09/12/89	12/12/89	12/18/89	91	AKP
1644339	SS9Q Mars Hill Rd.	200	Robin Baxter	446-1521	09/12/89	02/27/90	03/02/90	168	DJKP
	PORT WATER	9	B Brown	466-1742	09/12/89	01/05/90	01/08/90	115	DEJKP
1643191	S610 Mars Hill Rd.	9 5	Marie Lettman	446-1292	09/12/89	12/16/89	12/27/89	92	χ: α <u>ξ</u>
	S620 Mers Hill Rd. S630 Mers Hill Rd.	62 63	Fred Brown		09/12/89	02/23/90	03/05/90	164	S S S S S S S S S S S S S S S S S S S
	S&4O Mars Hill Rd.	9	Linds Smith	446-0930	09/12/89	12/12/89	12/18/89	5	7 i
	S650 Mens Hill Rd	65	Cook		09/12/89	12/13/89	12/22/89	85	1 X
1643213	S660 Mars Hill Rd.	99	Daniel Borawski	446-0609	09/12/89	12/10/89	12/18/89	68	81.P
	S670 Mars Hill Rd.	67	Keith Swackhammer	446-1416	09/12/89	12/27/89	01/02/90	106	X T
	SeeO Mars Hill Rd	99	Michel White	446-0981	09/12/89	12/13/89	12/18/89	85	a
1643234	S690 Mers Hill Rd.	69	James Moses	446-1628	09/12/89	02/02/90	02/12/90	146	4 <u>5</u>
1643186	S710 Mars Hill Rd.	2.5	Laurie Miller	446-1004	09/12/89	01/14/90	02/05/90	124	X.
1643218	S720 Mars Hill Rd.	72			09/12/89	01/03/90	01/08/90	113	BNP

Key to Remarks:

A Duplicate descrive
B Delector placed by occupent of DEI
C Starting dete unknown
D Ending date unknown
E Detector received with no seel

J Exact duration of exposure unknown; concentration estimated K Detector in bedroom L. Detector in living room

K Detector in bedroom
L Detector in living room
Detector in kitchen
N Detector boation unknown

P Capehart home

C) MCA home

R Duplex (one-story) home

S Duplex (multistory) home

T Aperment building

U Below detection limit
[ND] No deta
[NR] Not returned

frwin Army Housing Area Irwin, Pennsylvania 15642 Indoor Radon Monitoring Conditions

Deflector No.	Address	ž ę	Occupants	Telephane No. (412)	See See	E #	Peceived Date	Ounston (days)	Permerks ^a
	3	17	Terri Hardaway	744-3699	09/13/89	12/15/89	12/18/89	69	BDJKP
	P	45	Phonda Custis	744-0024	09/13/89	12/13/89	12/18/89	6	AKP
643193	S420 Rd 11	42	Rhonda Custis	744-0024	09/13/89	12/13/89	12/18/89	16	AKP
	S43Q Rd. 11	4 3	Rodney Burch	744-0025	09/13/89	12/13/89	12/18/89	16	BKP
	S440 Rd 11	;	Dottie Emerson	744-7472	09/13/89				K P INR!
	2	45	Moreland		09/13/89	11/17/89	11/20/89	65	BHKP
	2	46	Llovd		09/13/89				X P TAT
1436011	S470 Rd. 11	47	SFC Robert Feck		09/18/89	12/30/89	01/02/90	103	BOJKP
1436034	Pi.	84	Marty Kipp	744-4759	09/13/89				K P [NR]
	P 3	4 R	Michela Burne	744.0075	00/13/00	00/01/10	01/22/00	40	
1436066	S51Q Rd. 11	5.5	Laurie Swope	744-3448	09/13/89	12/15/89	12/18/89	63	BDEJKP
	P	52	Lise Smith	744-3853	09/13/89				K P INRI
	P	53	Carlton Thorne	744-9854	09/13/89	11/17/89	11/20/89	65	BDEHJKP
1436009	S\$40 Rd. 11	24	Evelyn Pearl	744-9840	09/13/89	12/15/89	12/18/89	93	DJLP
0	2	22							
0	S560 Rd. 11	99							[ND]

P Capetart home Q MCA home R Duplex (one-story) home S Duplex (multistory) home T Apartment building U Below detection limit (ND) No dete	
H Exposure < 90 days J Exact duration of exposure unknown; concentration estimated K Detector in bedroom L Detector in living room M Detector in kitchen N Detector location unknown	
Duplicate detectors Detector placed by occupant of DEH Starting date unknown Ending date unknown Detector received with no seel No data sheet Unoccupied house	

20 S	Address	3 2	Occupents	Telephone No. (412)	Oeto	De e	Peceived Date	(days)	Remerks
436202	S290 Rd. 2	29	Olga Nives	325-4492	09/13/89	12/13/89	12/16/89	6 6	BKO
436056	9300 Fd. 2 9310 Fd. 2 5320 Fd. 2	32 32	Chris Rolands Debbie Fackenstein	733-3016 325-1734	09/13/89	12/15/89	12/18/89	6	BKP [NH] DJKP
36018		33	Keith Parnell Brenda Miller	325-3733 327-4185	09/13/89	01/02/90	0	===	08 8 XX 9 9 9
436201	5350 Rd. 2 5360 Rd. 2	35 36	Over Pat Thomas	325-3482	09/13/89 09/13/89	12/12/89	12/18/89	6 6	B K F
136071		37	Judy McNeil Claudotte Avela	327-6701			V	283	88 8 77 7 6 6 6
1436199 1436043	5380 Fd. 2 5380 Fd. 2 5400 Fd. 2	8 4 9 0 0 0	Nikita Jett George Dewitt	325-3158 327-8277	09/13/89 09/13/89	12/13/89	01/10/90		2 B 5 X 7 G

FOR N - DIE

Rural Ridge, Pennsylvania 15024 Rural Ridge, Pennsylvania 15024 Indoor Radon Monitoring Conditions

Defector No.	Address	52	Occupants	Telephone No. (412)	Sterrt Derte	Deta eta	Received	Duration (days)	Permarks [®]
436196	S01Q Crawford Run	58	Emma Jadib	265-2904	09/13/89	12/13/89	12/27/89	95	8 8 X X X X X X X X X X X X X X X X X X
436012 436026 0	S030 Crawford Run Rd. S040 Crawford Run Rd.	000	Susan Silmore	265-2958	09/13/89	12/13/89	12/18/89	16	B K P
0	S050 Crawford Run Rd. S060 Crawford Run Rd.	000	Mr. + Mrs. Haskins	265-1074	09/13/89	12/14/89	12/22/89	95	N X X
1436010	S070 Crawford Run Rd. S080 Crawford Run Rd.	00	Carol Hay Dale Snyder	265-3625 265-1570	09/13/89	02/19/90	05/25/90	159	DJKP
136027	S09Q Crawford Run	60	Loma Bodley	265-3453	09/13/89	02/24/90	02/27/90	164	DEJKP
1436069 1436068 1436020	S110 Crawford Run Rd. S120 Crawford Run Rd.	2 = 2	Mr. + Mrs. Wakel	265-2321 265-3008	09/13/89	12/12/89 02/07/90	12/16/89 03/13/90	147	**

	Capethart home MCA home Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit No data Not returned
	FOR N - JOE
	H Exposure < 90 days J Exact duration of exposure unknown; concentration estimated K Detector in bedroom L Detector in kirchen N Detector location unknown
Remarks:	plicate detectors sector placed by occupent of DEH riting date unknown ding date unknown ding date unknown sector received with no seal data sheet occupied house

Davisville Army Housing Ares North Kingston, Rhode Island 02852 Indoor Radon Monitoring Conditions

Defector No.	Adbess	Š 2	Occupants	No. (401)	Dete	E 2	Pecerved	(days)	Remerks
1647492 1647491 1642341 1647489	01 Navy 02 Navy 03 Navy 04 Navy	002 03	Cathy Pirro	295-7561	68/60/60	01/29/90	02/08/90	142	ENS BNS BNS NR BNS NR
1643075 1642327 1642336 1642328	05 Navy 06 Navy 07 Navy 09 Navy	05 06 7	George Moody Charles Barrett Cheryl Walbridge Mary Schaffhouser	294-2038 295-2946 294-1397 294-1322	09/10/89 09/09/89 09/09/89	12/17/89 12/03/89 12/15/89 01/19/90	12/22/89 12/06/89 12/16/89 01/22/90	95 97 132	BENS DINS DELNS NS
0 1647478 1642342 1642348	09 Navy 10 Navy 11 Navy	110	Ronald Bream Zerppora Craig Wilt	294-6978 294-6238	68/60/60 68/60/60	12/09/89	12/12/89	153	(ND) NS LS(NH) ENS
0 1642312 0 1647483	13 Navy 14 Navy 15 Navy 16 Navy	£ 4 £ £	Arthur W. LeBeau William Jackson	294-6304	68/60/60	01/05/90	01/08/90	=	NS (NR) (ND) OJNS
642340 647481 642344 642345	17 Navy 18 Navy 19 Navy 20 Navy	119	Margaret Curry Gale Howlett Mr.+ Mrs. Millor Jones	295-2896 294-3566 295-8412	09/09/89 09/09/89 09/09/89	12/15/89 12/13/89 01/29/90	12/18/89 12/18/89 02/05/90	95	DEJLS NS BLS[NR] EMS
1642346 1642339 1642320 1642338	22 Navy 23 Navy 24 Navy 25 Navy	9 9 9 9 9 8 4 8	Yung Hee Moore Mr.+ Mrs. Cutright Terry Tegre Jeff Krug	294-2396 295-8665 295-5039 295-7872	09/09/89 09/09/89 09/09/89	12/15/89 12/12/89 12/28/89	12/18/89 12/18/89 01/08/90	99 10 10	DJNS MS NS[NR] EMS

*Key to Remerks:

Duplicate detectors	Detector placed by occupant of DEH	Stanting date unknown	Ending date unknown	Detector received with no seal	No deta sheet	Unoccupied house
_	æ	ပ	_	ш	ш	G

O MCA home
R Duplex (one-story) home
S Duplex (multistory) home
T Apartment building
U Below detection limit
(ND) No dete

Davisville Army Housing Area (Cont'd) North Kingston, Rhode Island 02852 Indoor Radon Monitoring Conditions

2		5		Telephone		5	Haceward		
	Address	ž	Occupents	No. (401)	Cate	98	Cate	(GB)/2)	Hamens
207270	24 Marx	27	John Kiefer	295-2214	68/60/60	12/07/89	12/12/89	68	S M
24/463	ARA IZ	; ;	Crarkin Waleh	205-579R	09/00/BG	05/22/20	02/27/90	166	r s
642343	31 Navy	5	TIEN MAIN	200 500	00/00/00				EN CO
1642337	33 Navy	3	Dennis Oson	6000-067	000000	09/00/00	00/00/100	113	2 4
1643080	35 Navy	32	Charles Downey		09/09/09	60/06/21	01/22/10		
		36	Dony Wint	294-4425	68/60/60	01/19/90	01/22/90	132	SNCO
642316	SO INBUY	9 6	Charles Constitution	204.6727	08/00/00	12/14/89	12/18/89	96	S
643074	37 Navy	5	Karry Caucie	1310-163	00/00/00	12/15/00	12/18/80	07	2
642319	36 Navy	38	Lesie Bakker	7067-067	60/60/60	60/61/21	00/10/00	40	MI
642334	39 Navy	30	Wm. Powell	294-21/2	68/60/60	06/21/10	06/61/10	67	2
		:							CNI
0	40 Navy	2		1000	00/00/00	00/00/01	42/42/80	0	٧. 2
1642325	41 Navy	7	Part Lavano	1011-067	80/80/80	60/00/21	00/01/01	0) U
1647484	42 Navy	42	Anthony Hansen	292-2030	68/60/60	60/01/21	60/01/20	8) U
647480	43 Navy	4 3	Virginia McCloud	294-9883	09/09/89	03/13/30	03/16/30)
		;	Donies Timer	294-1121	68/60/60	12/09/89	12/13/89	9	SN
704/40	AK News	4							(NO)
47477	2 9	48	Borny Maydoney	294-3753	69/60/60	02/16/90	02/19/90	160	SNCO
104/4//		7.	Alan Bravelle	294-3436	68/60/60	12/15/89	12/18/89	16	DJKS
2/05	ì	•							
0	48 Navy	48		1					
1642349	49 Navy	6	Sylvia Rodriguez	295-5147	69/60/60	12/13/89	89/91/71	D •	0 2
642331	50 Navy	20	Anthony Darby	295-5826	88/60/60	40/60/21	00/01/21		2 2
642333	50 Navy	20	Anthony Darby	295-2820	69/80/60	50/20/21	10/01/71	•	
		i	Paide I aumanna	204.1630	09/00/00	01/07/90	01/15/90	120	S
642351	20 Mary	- 6	Flying Raintte	294-6461	68/60/60	12/10/89	12/18/89	92	SZ
7777	S Mari	, c	Comeo Maish	294-1499	68/60/60	12/31/89	01/05/90	113	S
1647490	54. Navy	54	Lenny Sipple	295-7049	68/60/60				NSINI
*Key to Remarks	marka:								
							_	Canadians borns	
Duplic B Delect C Startin E Ending	Duplicate detectors Delector placed by occupant of DEH Starting date unknown Ending date unknown Belector received with no seel		H Exposure J Exact duri unknown; K Detector i	Exposure < 90 days Exact duration of exposure unknown; concentration estimated Detector in bedroom: Detector in living room:	stimated		2868€ LO≪w⊢:	MCA home Duplex (one-story) home Duplex (multistory) home Apertment building	tory) home tory) home iding
	No data sheet Unoccupied house			Detector in kitchen Detector location unknown				No detail	
								NOT RETURNED	

Defector No.	Address	ž 2	Occupents	Telephone No. (401)	Sent	<u>a</u>	Received	Ounsition (days)	Remerks ^a
0 1647479 1644319 1642329	55 Navy 56 Navy 57 Navy 58 Navy	55 57 58	Lois Duris Michael Schuck Dan Vineski	295-7212 294-1623 295-1655	68/60/60 68/60/60 68/60/60	12/15/89 12/10/89 12/15/89	12/18/89 12/13/89 12/18/89	97 92 97	(ND) DJNS MS DEJNS
1647488	28	59 60	Christine Wiese J. Gerald Alfred	294-2591 294-6489	69/60/60	02/02/90 12/10/89	02/05/90	146 92	DJLS
1641200	61 Navy 62 Navy	61	Yvonne Baetz	294-1439	68/60/60	12/09/89	12/13/89	6	S
01643069	32	63 64	Karen Donnie	294-1352	68/60/60	12/31/89	01/05/90	113	DEJNS
1642335	65 Navy	65	Beth Pendergast	294-6919	68/60/60	11/21/89	11/24/89	73	HLS
1647486	66 Navy 67 Navy	66 67	Joseph Kielbasa	295-7706	09/16/89	09/16/89 12/16/89	12/22/89	6	BMS

*Key to Remarks:

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Stateraville Army Housing Area North Smithfleid, Rhode Island 02895 Indoor Radon Monitoring Conditions

Defector No.	Address	<u>\$</u> 2	Occupants	Telephone No. (401)	Sert Date	Date	Received Date	Duration (days)	Remarks ^a
645798	1001 Pound Hill Rd.	10	Drue Michaud	769-4336	68/60/60	12/09/89	12/12/89	85	DEJKP
642324	1002 Pound Hill Rd.	05	Deborah Dunn	765-4246	68/60/60	01/01/90	01/11/90	121	A S
0	1003 Pound Hill Rd.	03	i		00,000	0000000	00/00/10	•	22.0
643083	1004 Pound Hill Rd.	0	Sonja Filaronski		09/06/89	08/00/10	06/90/10	<u>-</u>	
843088	1005 Pound Hitt Rd	0.5	Hens Hart	765-7953	68/80/60	12/15/89	12/18/89	86	DJKP
643098	1006 Pound Hill Rd	90	Allan Jacobson	769-4291	09/08/89	12/15/89	12/18/89	86	ADJKP
43007	1006 Point Hill Rd	90	Allan Jacobson	169-4291	68/80/60	12/15/89	12/18/89	80	ADJKP
643084	1007 Pound Hill Rd.	07	Robert Henschel	762-3766	09/08/89	12/08/89	12/13/89	6	AKE
643077	1007 Downd Hill Bd	07	Robert Henschel	762-3766	68/80/60	12/08/89	12/13/89	16	AKP
643071	1008 Pound Hill Rd	90	G. Jean Henderson	762-1965	68/80/60	12/15/89	12/18/89	86	DJKP
644329	1009 Pound Hill Rd	60	Stephen Haurahan	766-5821	09/11/89	12/15/89	12/18/89	95	BUEJNP
643087	1010 Pound Hill Rd.	10	Suzanne Morrit		68/80/60	12/24/89	12/27/89	107	DJKP
643083	1011 Pound Hill Rd	=	Daniel Kubela	766-4719	68/80/60			9	K P [NR]
1000	3	12	Roger Richards	767-2627	69/80/60	12/08/89	12/13/89	5	EKP
1043030	ではませているのです。	7	Virginia Roberts	762-3191	68/80/60	12/09/89	12/12/89	95	ADJKP
641185	1013 Pound Hill Rd.	5 5	Virginia Roberts	762-3191	09/08/89	12/09/89	12/12/89	95	ADJKP
AC 2 2 3 4 4	1014 Pound Hill Bd		Paul Gareau	762-0983	68/80/60	12/16/89	12/19/89	66	2
1643100	1015 Pound Hill Rd	15	Anthony M. Mots	765-4859	09/21/89	12/31/89	01/02/90	101	D. S.
1643076	1018 Pound Hill Rd	16	Darlene Effler	765-7253	68/80/60	12/09/89	12/12/89	92	DJKP

Capehart home MCA home Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit No data No data
GORN-> <u>SK</u>
H Exposure < 90 days J Exact duration of exposure unknown; concentration estimated K Detector in bedroom L Detector in living room M Detector in kitchen N Detector location unknown
bupicate detectors Dupicate detectors Detector placed by occupant of DEH Starting date unknown Ending date unknown Detector received with no seel No data sheet

Defector No.	vedpy	<u> </u>	Occupants	Telephone No. (703)	Dete	£ £	Peceived Date	Duration (days)	Remarks [®]
1647554	7801 Arden Rd. 7801 Arden Rd. 7801 Arden Rd. 7801 Arden Rd.	-264	Moade	791-2766	791-2766 09/11/89 11/21/89	11/21/89	11/24/89	7.	NH N O N O O O O
1643681 1643689 0 1643691	7801 Arden Rd. 7801 Arden Rd. 7801 Arden Rd. 7801 Arden Rd.	10 to to 10	Prew Prew Meloy	791-3138 791-3138	09/11/89 09/11/89 09/11/89	12/24/89	12/27/89 12/27/89	40	ADJKO ADJKO INDI INRI INRI INRI INRI INRI INRI INRI
1647545		€ 5	Julia Brown Jenkins	791-6364 791-4296	09/11/89	12/11/89	12/18/89	5	K P [NR]

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Patrick Henry Army Housing Area Newport News, Virginia 23602 Indoor Radon Monitoring Conditions

Defector No.	Address	<u> </u>	Occupants	Telephone No. (804)	Stert	End Della	Received Date	Duration (days)	Remerks
1647541	Unit #01	-	Kopilchak	874-1862	68/60/60	09/09/89 12/14/89	05/01/90	96	9 7 5
0 1647558 1647561	Unit #02 Unit #03 Unit #03	~ ~ ~ ~ .	Garza Garza	872-0990 872-0990	68/60/60 68/60/60	12/14/89	05/01/90	96	× × ×
1647562	Unit #04		Mark Farley	877-9999	68/60/60				R P [NR]
0 1647564 1647567	Unit 805 Unit 806 Unit 807	V 60 V	Fietcher John Kon	875-9610 875-0629	09/09/80 09/09/89	12/14/89	05/01/90	96	A Y
1647557	Unit #08 Unit #09 Unit #10	8601	Martin Hanner Todd	886-0679 886-1142	68/60/60	12/11/89	12/18/89	66	(ND)
0 0 1647555	555	2 t t t	Dunham	874-6635		12/14/89	09/09/89 12/14/89 02/01/90	96	ON X

Capeluar home MCA home Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit No data Not returned
GR & - ⊃ ONI
H Exposure < 90 days J Exact duration of exposure unknown; concentration estimated K Detector in bedroom L Detector in living room M Detector in kitchen N Detector in kitchen
cate detectors yor placed by occupant of DEH and date unknown ag date unknown yor received with no seal the sheet cupied house

No.	Address	<u> </u>	Occupents	Telephone No. (703)	Stert	De Ed	Peceived C	Ouration (days)	Pemarks*
1647566			Long	494-0258		01/28/90	02/03/90	139	AKT
1643690	14000 Dawson		Long	494-0258	09/12/89	01/28/90	02/03/90	138	AKT
647563	14002 Dawson		Croskey	497-0102					
647559	14004 Dawson Beach Rd.		Herbert	494-0154	09/12/89	01/28/90	05/03/90	138	-
643682	14006 Dawson Beach Rd.		Moffett	490-8215	09/12/89	05/26/90	03/01/90	167	ELT
647547	14008 Dawson Beach Rd.		A. L. Coll	490-8865	09/12/89	01/28/90	05/03/90	138	¥
647544	14010 Dawson Beach Rd.		Wiggins	491-2976	09/11/89	12/07/89	12/12/89	87	ΚŢ
1647570	14011 Dawson Beach Rd.		Matthew Renkin	590-8004	10/07/89				K R [NR]
1644110	14012 Dawson		Dale Marton	664-3876	10/07/89	01/05/90	01/08/90	87	BLT
	14013 Dawson Beach Rd. 14014 Dawson Beach Rd.		Florinda Curry	491-8471	10/07/89	01/26/90		Ξ	DEJKR INDI

TOR N → ⊃

Midwey Army Housing Area Kent, Washington 98032 Indoor Radon Monitoring Conditions

No.	Actress	3 2	Occupents	Telephone No. (206)	Oete G	E 2	Hecewed Date	(days)	Remarks ^a
1			Alles Mesois	978.9781	00/02/80				KPINB
042130	m-CI Avenue D	-	Shigh many	200	00/30/00	19/05/80	10/40/00	ě	. 0
645110		ZĖ	Howard Heese	0101-010	60/50/60	00/00/01	60/01/21	. 6	
645112	m-03 Avenue B	E E	Handy Duff	8/0-11/1	69/00/60	69/01/71	69/91/7	98	L (
1645135	m-04 Avenue B	E -	Pio Samson	824-7243	09/02/89	12/05/89	12/08/89	16	X L
646196	B discourse of	É	Kenneth Perry	870-1538	09/05/89	12/09/89	12/12/89	95	ADEJKP
1043120		E 6	Konneth Dorry	870.1538	09/05/89	12/09/89	12/12/89	56	ADEJKP
643133	De proposition de la constante		C. Joseph	824 E70E	00/02/00			1	KDIND
1645109	m-06 Avenue B	Ē	Services	05/6-120	60/50/60	00/10/07	00/00/07	8	
644012	m-07 Avenue B	Ė	Brian Money	8/8-5306	68/00/60	12/04/89	50/90/21	96	L
				6777	00/00/00	00/61/61	12/10/00	0	2
645119	M-06 S. 240m	Ė	Cingras	C#+1-#20	60/00/60	60/51/31	60/01/21	6	2 4
1644016	m-09 S. 240th	Ė	Larry Mitchell	6670-979	69/00/60	69/10/21	69/21/21	2 6	C -
1644015	m-09 S. 240th	δ E	Lamy Mitchell	8/8-0299	68/00/60	12/0//89	69/21/21	50	L K U I
1645085	m-10 Avenue B	10 −E	Mary White	878-2696	09/15/89	12/15/89	12/27/89	91	d X
		;			00/30/00				ION 0 A
1645125	H-11 Avenue B	Ë	SHIP	0000	60/00/60	00/20/07	00/00/10	č	2
1645116	m-12 Avenue B	₽-12	Almes	2622-9/9	69/00/60	12/02/89	08/20/10	'n	
1645129	Avenue	3-13	Greber	824-3051	69/02/60				12
645143	m-14 Avenue B	#1-E	Michael Ellis	878-3046	09/02/89	12/06/89	12/12/89	92	T.
	1		William McCon	079 7630	09/02/80				K P INRI
043141		E	MA- MANAGED	878 7630	00/20/00	12/10/80	12/1R/RG	90	A X
945104		Ė	Mr. William	8001-010	00/20/00	12/06/200	00/00/01	6	מאוואם
645107	Avenue	E	Samuel Fower	04/0-479	60/60/60	69/59/21	60/00/21	5	א ה ה
644008	m-18 Avenue B	Ē	MICHEIR MCSWarn	2041-0/0	03/14/03	60/14/03	60/01/7	6	2
84K123	B. 10 Avenue B	9	. lark infocine	R78-1919	09/02/89	12/13/89	12/27/89	66	A P
	STORY OF THE	2	Voite Morrie	870-1414	08/50/00	12/05/89	12/08/89	16	
251050	M-20 Avenue	DY-E	Neigh Morns	10000	00/50/00	50000		•	
1644030	S New Y	17-E	Netroes Correse	0128-070	00/00/00	00/10/00	00/01/00	188	. 0
645101	m-22 Avenue B	m-22	Edward Salazer	824-2715	69/00/60	08/10/20	08/61/20	2	
									,
*Key to Remarks:	marks:								
	Dunicate detectors		H Exposure < 90 days	c 90 clavs				Capehart home	•
B Detect C Startin D Ending		I		Exact duration of exposure unknown; concentration estimated Detector in bedroom	simated		0 E 0	MCA home Duplex (one-s Duplex (multis	MCA home Duplex (one-story) home Duplex (multistory) home
_,			M Detector in kitchen	Detector in living room Detector in kitchen				Below detection limit	or limit
_	Director of the control of the contr			Defector location unknown					

Midway Army Housing Area (Cont'd) Kent, Washington 98032 Indoor Radon Monitoring Conditions

Defector No.	Address	2 S	Occupents	Telephone No. (205)	Og og	Dafe of	Peceived Date	Duration (days)	Remarks
1644013		m-23	Williams Walker	878-2813 828-0699	09/05/89	12/24/89	12/27/89	101	K P INRI OEJN P
1645118	m-25 Jeffrey m-26 Jeffrey	m-25 m-26	Auguster Montgomery Strong	878-3552 878-5253	09/05/89	12/09/89	12/12/89	95	
1645108 1645114 1645137 1645133	m-27 Jeffrey Rd. m-28 Jeffrey Rd. m-29 Jeffre Rd. m-30 Jeffrey Rd.	m-27 m-28 m-29	Nr. + Mrs. Wilson Bred Bayer William Welkins Douglas Shaffer	878-7864 878-9453 878-8126 870-1427	09/05/89 09/05/89 09/05/89 09/05/89	01/01/90 12/15/89 12/06/89	01/04/90 12/19/89 12/12/89	118 101 92	KP (NR)
1645138		m-31	Mr.+ Mrs. Nordeh Mr.+ Mrs. Spindler	824-5775 878-3499	09/05/89	12/09/89 12/07/89	12/12/89	9 9	DJKP KP

H Exposure < 90 days
J Exect duration of exposure
unknown; concentration estimated
K Detector in bedroom
L Detector in twing room
M Detector in kitchen
N Detector location unknown

Youngs Lake Army Housing Area Renton, Washington 98055 Indoor Radon Monitoring Conditions

1.1 Elicat 1.2 William Misher 226-0112 09/05/89 12/18/89 95 KOU 15/18/89 12/18/89 12/18/89 95 KOU 15/18/89 12/1	Defector No.	Address	J &	≆ €	Occupents	Telephone No. (206)	Date of	<u> </u>	Peceived Date	Ounition (days)	Pernerks [®]
1.00	645105	19.1		=	Eliot	226-0112	09/02/89	12/09/89	12/18/89	95	KOU
1.05	646106		-		William Miliar	235-6974	09/05/89	12/08/89	12/12/89	76	FKO
Log	040100	707		, c	Simmons	277-5930	09/02/89	12/31/89	01/05/90	117	C
L-6	645097	L-04		3	Patterson	235-7044	09/02/89	12/14/89	12/19/89	100	0
L-05			•			3873 777	00/06/00	10,06/80	12/12/80	ć	2
Log	645098	60.		ņ,	reters	90/0-//7	60/20/80	60/00/21	60/21/21	36	2
L-07	645131	90-1		ا ب	Mary Wetson	226-4199	68/00/60	12/05/89	12/08/89	5 6	2
L-10	545096	L-07		٠.	World Adams	228-1611	09/02/89	69/01/21	12/18/69	06	N C
L-06	545089	F-08		Ď.	WERTER L. ARBIT		69/1/69				fraul o
L-10	15004	90		0	John Dohav	235-6636	09/02/89	01/14/90	01/19/90	131	FKP
L-13 Sharon Freischer 228 8166 09/05/89 12/05/89 12/06/89 91 -14 L-13 Leeper 228-2282 09/05/89 12/05/89	45005	1.10		9	Said	235-9177	09/02/89	01/02/90	01/08/90	119	KPU
L-13	845117		ند ،	=	Sharon Fretscher	228-8166	09/02/89	12/05/89	12/08/89	91	XPC
L-13 Leeper L-14 Chympis MacFirma 228-2282 12/05/89 12/06/89 12/27/89 98 -15 L-14 Chympis MacFirma 271-4865 09/14/89 12/27/89 98 -16 L-15 L-15 Silva 277-0266 09/05/89 12/05/89 12/04/89 91 -17 L-17 Harrison 226-8121 09/05/89 12/05/89 12/04/89 91 -18 L-19 Harrison 271-3813 09/14/89 12/05/89 12/04/89 91 -19 L-19 Harrison 271-3813 09/14/89 12/05/89 12/05/89 91 -10 L-20 Christian 271-1455 09/05/89 12/05/89 12/08/89 91 -10 L-21 L-22 Trail 235-4620 09/06/89 12/08/89 88 -10 L-22 Trail Description of exposure Description of exposure Description of exposure Description of exposure Description of the property Description of the prope	545093	L-12	ئد ا	12	Teresite	226-1368	68/90/60	12/13/89	12/18/89	66	EKPU
L-15 Chympia MacFirma 271-8547 09/05/89 12/21/89 98 1-15 Berglin 271-865 09/14/89 12/21/89 12/27/89 99 1-15 Berglin 271-865 09/14/89 12/05/89 12/04/89 99 1-15 Berglin 271-865 09/14/89 12/05/89 12/08/89 99 1-20 Christian 271-1455 09/05/89 12/05/89 12/08/89 99 1-20 Christian 271-1455 09/05/89 12/08/89 12/08/89 99 12/08/89 12/08	7		-	•	l agent	228.2283	09/02/80	12/05/80	12/08/80	ē	ď
L-15 L-15 Bergin 277-0266 09/05/89 12/05/89 12/04/89 91 L-15 L-15 Shiva 277-0266 09/05/89 12/05/89 12/04/89 84 L-15 L-15 Parker 225-0812 09/05/89 12/05/89 12/04/89	201000	2 3	٠. د	2	Ohmnie MacFinna	271-4865	09/14/89	12/21/89	12/27/89	86	ď.
L-16 L-16 Silva 277-0266 09/05/89 11/28/89 12/04/89 84 -17 L-17 Herrison 226-8121 09/14/89 12/05/89 01/22/90 91 -18 L-19 Herrison 226-8121 09/14/89 12/05/89 01/22/90 91 -19 L-20 Christian 271-1455 09/05/89 12/08/89 91 -21 L-21 Scott 277-636 09/06/89 12/08/89 91 -22 L-22 Trail 235-4620 09/06/89 12/08/89 88 -23 L-22 Trail 235-4620 09/06/89 12/08/89 88 -24 L-22 Trail 235-4620 09/06/89 12/08/89 88 -25 L-22 Trail Exposure < 90 days 12/08/89 12/08/89 88 -25 L-22 Trail Exposure < 90 days 12/08/89 1	45128		<u>ئ</u> ـ د	1	Beralin	271-8547	09/02/89	12/05/89	12/08/89	16	XP.C
L-17 Harrison 226-8121 09/05/89 12/05/89 01/22/90 91 -18 L-19 Harrison 226-8121 09/05/89 12/05/89 01/22/90 91 -19 L-19 Harrison 271-1455 09/05/89 12/08/89 91 -20 L-20 Christian 271-1455 09/05/89 12/08/89 91 -21 L-21 Trail 235-4620 09/06/89 12/08/89 88 -22 L-22 Trail 235-4620 09/06/89 12/08/89 12/08/89 88 -22 L-22 Trail 235-4620 09/06/89 12/08/89 88 -22 L-22 Trail 235-4620 09/06/89 12/08/89 88 -23 L-22 Trail 235-4620 09/06/89 12/08/89 88 -24 L-22 Trail 235-4620 09/06/89 12/08/89 88 -25 L-22 Trail 235-4620 09/06/89 12/08/89 12/08/89 88 -25 L-22 Trail 235-4620 09/06/89 12/08/89 12/08/89 88 -25 L-22 Trail 235-4620 09/06/89 12/08/89 12/08/89 12/08/89 12/08/89 12/08/89 -25 L-22 Trail 235-4620 09/06/89 12/08/89 12/0	545127		ند	9	Silva	277-0266	09/02/89	11/28/89	12/04/89	8	HKO
L-18 L-18 Hammond 265-0802 09/14/89 L-19 Hammond 265-0802 09/14/89 L-19 Hammond 265-0802 09/14/89 L-20 Christian 271-1455 09/05/89 12/05/89 12/08/89 88 L-21 Scott L-22 Trail 235-4620 09/06/89 12/03/89 12/08/89 88 L-22 Trail 235-4620 09/06/89 12/03/89 12/08/89 88 L-22 Trail 235-4620 09/06/89 12/03/89 12/08/89 88 IS/08/89 IS/08/89 88 IS/08/89 IS	245103		-	17	Harrison	226-A121	09/05/89	12/05/89	01/22/90	6	9
L-20 Christian 271-1455 09/05/89 12/05/89 12/08/89 1	544017		<u>ن</u> .	=	Parker	271-3813	09/14/89				KOK
L-20 Christian 271-1455 09/05/89 12/08/89 91 12/08/89 12/08/89 12/08/89 88 12-22 Trail 235-4620 09/06/89 12/03/89 12/08/89 88 12/08/89	544019		ند	6	Hammond	265-0882	09/14/89		,		KO [NR]F
L-20 L-20 Christian 277-6536 09/05/89 12/05/89 12/08/89 91 -22 L-21 Scott 277-6536 09/05/89 12/03/89 12/08/89 88 -22 L-22 Trail 235-4620 09/06/89 12/03/89 12/08/89 88 -22 L-22 Trail 235-4620 09/06/89 12/03/89 12/08/89 88 -22 L-22 Trail 235-4620 09/06/89 12/03/89 12/08/89 88 -23 L-22 Trail 235-4620 09/06/89 12/03/89 12/08/89 88 -23 L-22 Trail 235-4620 09/06/89 12/08/89 88 -24 L-22 Trail 235-4620 09/06/89 12/08/89 88 -25 Trail 235-4620 09/06/89 12/08/89 12/08/89 88 -25 Trail 235-4620 09/06/89 12/08/89 12/08/89 12/08/89 12/08/89 -25 Trail 235-4620 09/06/89 12/08/89 12/0	545133	L-20	ن	50	Christian	271-1455	09/02/89				A K Q [NR]
L-21 Scott 277-6536 09/05/89 12/08/89 91 -22 L-22 Trail 235-4620 09/06/89 12/03/89 12/08/89 88 -22 L-22 Trail 235-4620 09/06/89 12/03/89 12/08/89 88 -22 L-22 Trail 235-4620 09/06/89 12/03/89 12/08/89 88 -23 L-22 Trail 235-4620 09/06/89 12/08/89 88 -24 L-22 Trail 235-4620 09/06/89 12/08/89 12/08/89 88 -25 Trail 235-4620 09/06/89 12/08/89 12/0	845103	1-20	ن	50	Christian	271-1455	68/02/60				A K O [NF]
L-22 Trai 235-4620 09/06/89 12/03/89 12/08/89 88 L-22 Trai 235-4620 09/06/89 12/08/89 88 L-22 Trai 235-4620 09/06/89 12/03/89 12/08/89 88 L-22 Trai 235-4620 09/06/89 12/08/89 88 L-22 Trai 236-4620 09/06/89 12/08/89 12/08/89 88 L-22 Trai 236-4620 09/06/89 12/08/89	345122	1.21	ن	-21	Scott	277-6536	09/02/89	12/05/89	12/08/89	91	0
ey to Remarks: Duplicate detectors: Duplicate detectors: Detector placed by occupant of DEH Starting date unknown Ending date unknown Chector received with no seal No data sheet Unoccupied house Lose Trail Lose T	14011	L-22	ن	-22	Treat	235-4620	68/90/60	12/03/89	12/08/89	88	OXY
Duplicate detectors: Duplicate detectors: Detector placed by occupent of DEH Starting date unknown Ending date unknown Ending date unknown Chelector received with no seal No data sheet	344014	L-22	ن	-52	Trail	235-4620	68/90/60	12/03/89	12/08/89	88	AKON
Dupitcate detectors: Dupitcate detectors: Detector placed by occupent of DEH Starring date unknown Ending date unknown Ending date unknown Chector in bedroom Ch											
Duplicate detectors Detector placed by occupent of DEH Starting date unknown Ending date unknown Ending date unknown Chector received with no seal No data sheet	(ey to Re	merks:									
No data sheet Unoccupied house N Detector location unknown (ND)		ate detectors for placed by occup ig date unknown or received with no	ant of DEH			c 90 days tion of exposure concentration et bedroom living room	ifmated			A home yex (one-s) yex (multis urament but	tory) home tory) home iding
		te sheet upled house	Ċ			kitchen cetion unknown				della della	N Mint

Detector No.	Adbess	3 2	Occupants	Telephone No. (206)	Og og	De Gr	Pecsived Date	Oursiton (days)	Remarks
1645140 1644031 1645121 1645100	L-23 L-25 L-25	L-23 L-24 L-25 L-25	Marlene Clark Peterson Clemons Clemons	235-9949 235-8719 255-1449 255-1449	09/05/89 09/05/89 09/05/89	12/03/89 12/05/89 01/06/90 01/06/90	12/08/89 12/08/89 01/12/90 01/12/90	89 90 123 123	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1645130 1645134 1645120	L-26 L-27 L-28	L-26 L-27 L-28	David Steen Dean Warden Simpkins	277-1714 271-9191 228-1580	09/02/89 09/05/89 09/05/89	12/05/89 12/05/89 01/07/90	12/08/89 12/08/89 01/12/90	91	DJKO DJKO ELP

*Key to Remarks

TORN-JON

Sun Prairie Army Housing Area Sun Prairie, Wisconsin 53590 Indoor Radon Monitoring Conditions

## 837-0084 09/13/89 ## 837-2951 09/13/89 ## 837-2951 09/15/89 ## 837-2951 09/15/89 ## 837-0487 09/15/89 ## 837-0487 09/15/89 ## 837-0487 09/15/89 ## 837-0528 09/15/89 ## 837-0528 09/15/89 ## 837-0528 09/15/89 ## 837-0528 09/15/89 ## 837-0528 09/15/89 ## 837-0538 09/15/89 ## 837-0538 09/15/89 ## 837-0538 09/15/89 ## 837-0538 09/13/89 ## 837-0538 09/13/89 ## 837-0533 09/13/89 ## 837-0533 09/13/89 ## ## 825-6346 09/13/89 ## ## ## ## ## ## ## ## ## ## ## ## ##	No.	Actiess	ž 2	Occupants	Telephane No. (608)		P 8	Received Date	Duration (days)	Remerks
### State ### St										
44029 119 Andrews Dr. 1122 Janczewski 837-463 09/13/89 14/4023 119 Andrews Dr. 1106 Girlfin 257-8635 09/13/89 14/402 096 Ent Dr. 1109 Bernier 825-8165 09/15/89 14/4106 096 Ent Dr. 1113 Mellum 825-8165 09/15/89 14/413 096 Ent Dr. 1117 Girlfis 837-4021 09/15/89 14/413 099 Ent Dr. 1201 Heath 837-362 09/15/89 14/413 099 Ent Dr. 1224 Schoenberg 837-0528 09/15/89 14/413 099 Ent Dr. 1224 Schoenberg 837-0528 09/15/89 14/413 099 Ent Dr. 1224 Schoenberg 837-0528 09/15/89 14/413 100 Ent Dr. 1224 Schoenberg 837-0523 09/15/89 14/413 100 Ent	_	3 Andrews Dr.	1114	Anastasi	837-0084	09/13/89	12/13/89	12/18/89	ā	T X
44023 119 Andrews Dr. 1106 Janczewski 837-2951 09/13/89 44107 095 Ent Dr. 1109 Bernier 257-8635 09/15/89 44107 095 Ent Dr. 1117 Griffin 257-8635 09/15/89 44105 096 Ent Dr. 1117 Griffis 825-6185 09/15/89 44106 096 Ent Dr. 1117 Griffis 837-0487 09/15/89 442692 096 Ent Dr. 11201 Heath 837-4021 09/15/89 44589 096 Ent Dr. 1205 Hansen 837-4021 09/15/89 44589 096 Ent Dr. 1213 Hoken 837-4021 09/15/89 44709 096 Ent Dr. 1217 Hoover 837-4021 09/15/89 44413 099 Ent Dr. 1221 Kenneth Gorr 837-652 09/15/89 44414 100 Ent Dr. 1224 Schoenberg 837-052 09/15/89 443134 099 Ent Dr. 1224 Schoenberg 837-052 09/15/89		Andrews Dr.	1122		837-4683	09/13/89	12/13/89	12/18/80	ō	2
347587 095 Ent Dr. 1105 Griffin 257-8635 0915/89 344107 095 Ent Dr. 11109 Bernier 825-6165 0915/89 344107 095 Ent Dr. 11113 Mellum 825-6356 09/15/89 34758 096 Ent Dr. 1117 Griffs 837-4021 09/15/89 34752 096 Ent Dr. 1201 Hansen 837-4021 09/15/89 34699 096 Ent Dr. 1209 Klein 837-4021 09/15/89 34699 096 Ent Dr. 1209 Klein 837-4021 09/15/89 34314 099 Ent Dr. 1221 Hoke 837-4514 09/15/89 34514 099 Ent Dr. 1221 Kenneth Gorr 837-452 09/15/89 34514 099 Ent Dr. 1221 Kenneth Gorr 837-4514 09/15/89 34514 099 Ent Dr. 1222 Schoenberg 837-6514 09/15/89 34512 1 00 Ent Dr. 1224 Schoenberg 837-0528 09/15/89 44758 101 Ent Dr. 1222 Schoenberg 837-0528 09/15/89 44758 102 Ent Dr.		Andrews Dr.	1106	Janczewski	837-2951	09/13/89	12/13/89	12/18/89	5	2 2
44107 095 Ent Dr. 1109 Bernier 825-6165 09/15/89 44106 096 Ent Dr. 1117 Griffs 825-6356 09/15/89 447565 096 Ent Dr. 1117 Griffs 837-0487 09/15/89 447565 096 Ent Dr. 1201 Heath 837-4021 09/15/89 46592 096 Ent Dr. 1203 Klein 837-4021 09/15/89 46599 096 Ent Dr. 1203 Klein 837-462 09/15/89 46599 096 Ent Dr. 1213 Hoke 837-6514 09/13/89 44413 096 Ent Dr. 1221 Kenneth Gorr 837-052 09/13/89 44413 096 Ent Dr. 1224 Schoenberg 837-052 09/13/89 44509 100 Ent Dr. 1224 Schoenberg 837-052 09/13/89 44509 100 Ent Dr. 1222 Schoenberg 837-052 09/13/89 44509 100 Ent Dr. 1222 Schoenberg 837-052 09/13/89	_	Ent Dr.	1105	Griffin	257-8635	09/15/89	12/14/89	12/18/89	6	X X
44106 OSE Ent Dr. 1113 Mellinn 825-636 09/15/89 44756 OSE Ent Dr. 1117 Griffs 837-0487 09/15/89 44756 OSE Ent Dr. 1101 Griffs 837-0487 09/15/89 44756 OSE Ent Dr. 1201 Heath 837-4049 09/15/89 446099 OSE Ent Dr. 1203 Helmsen 837-4049 09/15/89 447009 OSE Ent Dr. 1213 Hoke 837-4052 09/15/89 44413 OSE Ent Dr. 1213 Howe 837-4052 09/15/89 44413 OSE Ent Dr. 1221 Kenneth Gorr 837-4052 09/15/89 44413 OSE Ent Dr. 1221 Kenneth Gorr 837-4052 09/15/89 44413 OSE Ent Dr. 1224 Schoenberg 837-0528 09/15/89 44509 100 Ent Dr. 1224 Schoenberg 837-0528 09/15/89 44758 100 Ent Dr. 1202 Clay Clay 09/15/89		Ent	1100	Bemier	3010 300	00/11/00	00/07/07	67.07	•	2
47586 OSE Ent Dr. 1117 Griffs 837-0487 09/15/89 447584 OSE Ent Dr. 1117 Griffs 837-0487 09/15/89 44582 OSE Ent Dr. 1201 Heath 837-4021 09/15/89 46999 OSE Ent Dr. 1203 Kieln 837-4021 09/15/89 447009 OSE Ent Dr. 1213 Hoover 837-4652 09/15/89 44313 OSE Ent Dr. 1221 Kenneth Gorr 837-4652 09/15/89 44313 OSE Ent Dr. 1221 Hoover 837-0528 09/15/89 44313 OSE Ent Dr. 1224 Schoenberg 837-0528 09/15/89 44312 100 Ent Dr. 1224 Schoenberg 837-0528 09/15/89 44108 100 Ent Dr. 1216 Jam' Grimshaw 837-0528 09/15/89 441509 101 Ent Dr. 1216 Brown 1224 Schoenberg 441509 102 Ent Dr. 1224 Schoenberg 837-2960 09/15/89				Mathia	2010-020	80/01/80	69/51/21	69/91/71	60	
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Sun Preirle Army Housing Aree (Cont'd) Sun Preirle, Wisconsin 53590 Indoor Radon Monitoring Conditions

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N Detector location unknown		late sheet			in kitchen				NOW COMBC	

Sun Prairie Army Housing Area (Cont'd) Sun Prairie, Wisconein 53590 Indoor Radon Monitoring Conditions

	\$ 2	Occupants	No. (608)	Deta	Design	Date	(days)	Remarks
						00,010	6	0
643124 089 N Andrews Dr.	1006	Cartwright	837-1004	68/51/60	12/13/89	69/91/71	A (C (
5	1026	John Baker	825-2874	09/13/89	12/13/89	12/18/89	6	7
		7	R37.5390	09/13/80	12/13/89	12/18/89	9	<u>ه</u> ۷
	1018	UBdoz	2030-100	00/41/00	00/07/04	43/40/00	0	2
1646990 122 Schumenn	1010	Hengel	83/-4468	60/1/60	12/13/09	60/01/21	9	:
				00/01/00	00/01/01	00/01/01	•	9
643998 123 Schumann	1002	Davison	837-807	89/51/60	50/51/21	60/01/21		2
124	0926	Bell	825-6481	09/14/89	12/15/89	12/18/89	76	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	8100	Holder	837-5647	09/14/89	12/13/89	12/18/89	90	¥
		90	825.2836	09/14/89	12/13/89	12/18/89	80	۵. ۲
164701/ 126 Schumann	260							
		C	017 6110	09/11/00	12/13/80	12/18/89	06	AKP
646986 127 Schumann	0902	HUMBES	0140-150	00/11/00	00/01/01	42/18/80	6	AKD
127	0805	Runsas	837-5410	69/11/60	60/61/21	60/01/21	2 6	
128	0830	Kirkerewicz	837-2439	09/14/89	12/13/89	12/16/69	9	L :
8	0822	No resident		09/14/89	12/13/89	12/18/89	06	G K P
	1140	Great	837-0294	09/14/89	12/13/89	12/18/89	06	۲ ص
3	* 600	The American	837.200R	09/14/80	12/13/89	12/18/89	06	ک
2	9090	BURNEY STREET	0602-100	00/44/00	12/13/80	12/18/89	C	4
152	1110	Denusa	93/-1995	00/11/00	2007	00/01/01	d	2
647014 153 Stuff	1102	Brown	837-1074	09/14/89	12/14/89	69/91/71	n	
		1	2007	00171700	00/61/61	12/18/80	G	Q.X
647013 154 Stull	1018	LeDuff	2861-768	89/11/80	89/51/21	80/01/71	9 6	. 0
	1010	Needham	837-3914	09/14/88	12/13/69	89/91/21	9 6	. 0
	1002			68/60/60	12/13/89	69/91/21	0 0	
647002 157 Stuff	1002	Kuha	837-5284	09/14/89	12/13/89	12/18/89	06	¥
158 Shill	1101	Hight	837-6092	09/14/89				Z L
Ť	1017			09/13/89	12/18/89	12/22/89	98	E E
0 0	000		877-4145	09/14/89	12/15/89	12/18/89	92	DJKP
164 / 025 160 Stuff		Butrick	825-6429	09/14/89	12/13/89	12/18/89	90	a.
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Key to Remarks:								
A Duplicate detectors B Detector placed by occupant of DEH C Starting date unknown D Ending date unknown E Detector received with no seal F No data sheet G Unoccupied house	o DEH	H Exposure J Exact du unknown K Detector L Detector M Detector	Exposure < 90 days Exact duration of exposure unknown; concentration estimated Detector in bedroom Detector in living room Detector in kitchen Detector location unknown	stmated			Capehart home MCA home Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit No deta	e tory) home tory) home tofing on limit

Sun Preirie Army Housing Area (Cont'd) Sun Preirie, Wisconsin 53590 Indoor Redon Monitoring Conditions

1646977 080 Vandenburg 1220 George 837-2372 09/15/89 12/15/89 12/18/89 91 DJKR 1644312 080 Vandenburg 1224 Wood 837-6641 09/15/89 12/18/89 12/18/89 89 KR 1647036 091 Vandenburg 1224 Wood 837-6641 09/15/89 12/18/89 12/18/89 89 KR 1647036 091 Vandenburg 1226 Ross 837-664 09/15/89 12/18/89 91 KR 164303 082 Vandenburg 1206 Clay 837-489 09/13/89 12/13/89 12/18/89 91 KR 1643125 082 Vandenburg 1104 Tokey 837-489 09/15/89 12/18/89 91 KR 1643126 082 Vandenburg 1105 Sibley 837-489 09/15/89 12/18/89 91 KR 1643126 082 Vandenburg 1106 Sibley 837-489 09/15/89 12/18/89 91 KR 1643127	Defector No.	Adbess	3 8	Occupants	Telephane No. (608)	Clarks of the clarks	De End	Peceived Date	Ounsition (days)	Perner ks ^a
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091 Vandenburg 1210 Weeb 837-5861 09/15/89 12/13/89 12/16/89 89 091 Vandenburg 1216 Wynn 837-5254 09/13/89 12/13/89 12/16/89 91 092 Vandenburg 1202 Ross 837-7821 09/13/89 12/13/89 12/16/89 91 092 Vandenburg 1206 Cley 837-4899 09/13/89 12/13/89 12/18/89 91 092 Vandenburg 1100 Sibley 837-1010 09/15/89 12/13/89 12/18/89 91 093 Vandenburg 1102 Sibley 837-2718 09/15/89 12/13/89 12/18/89 91 094 Vandenburg 1102 Saprzebsi 837-2718 09/15/89 12/13/89 12/18/89 91 094 Vandenburg 1106 Meddings 837-2718 09/15/89 12/13/89 12/18/89 91 105 W. Andrews Dr. 1001 Young Bench 837-023 09/14/89 12/13/89 12/18/89 12/18/89 91 <tr< td=""><td>116000</td><td></td><td>1224</td><td>Wood</td><td>837-6491</td><td>09/15/89</td><td>12/13/89</td><td>12/18/89</td><td>89</td><td>R</td></tr<>	116000		1224	Wood	837-6491	09/15/89	12/13/89	12/18/89	89	R
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106 W. Andrews Dr. 1009 Bench 837-0233 09/14/89 12/13/89 12/18/89 90 106 W. Andrews Dr. 1009 Bench 837-4731 09/14/89 12/13/89 12/18/89 90 107 W. Andrews Dr. 1017 McCenn 825-2863 09/14/89 12/13/89 12/18/89 91 107 W. Andrews Dr. 1025 Anthony Broadbent 825-5108 09/14/89 12/13/89 12/18/89 91 108 W. Andrews Dr. 1049 Gay Gay 837-2776 09/14/89 12/13/89 12/18/89 91 108 W. Andrews Dr. 1049 Gay 837-5976 09/14/89 12/13/89 12/18/89 90 110 W. Andrews Dr. 1105 Newheuser 837-4912 09/14/89 12/14/89 12/18/89 91 110 W. Andrews Dr. 1109 Punzel 837-4080 09/14/89 12/14/89 12/18/89 91 111 W. Andrews Dr. 1113 Los Laras 837-0224 09/14/89 12/14/89 12/14/89 91	20074	Open Vandanburg	1106	Meddings	825-6123	09/13/89	12/13/89	12/18/89	91	æ
108 W. Anchews Dr. 1009 Bench 837-4731 09/14/89 12/13/89 12/18/89 90 107 W. Anchews Dr. 1017 McCern 825-2863 09/14/89 12/14/89 12/18/89 91 107 W. Anchews Dr. 1025 Anthony Broadbent 837-2471 09/13/89 12/13/89 12/18/89 91 106 W. Anchews Dr. 1033 Garoutte 825-6108 09/14/89 12/13/89 12/18/89 91 108 W. Anchews Dr. 1049 Guy 837-2776 09/14/89 12/13/89 12/18/89 91 109 W. Anchews Dr. 1105 Newheuser 837-5289 09/14/89 12/13/89 12/18/89 90 110 W. Anchews Dr. 1109 Punzel 837-4912 09/14/89 12/14/89 12/18/89 91 110 W. Anchews Dr. 1109 Punzel 837-4080 09/14/89 12/14/89 12/18/89 91 111 W. Anchews Dr. 1113 Los Laras 837-9590 09/14/89 12/14/89 12/18/89 91	43108	106 W. Andrews Dr.	1001	Young	837-0233	09/14/89	12/13/89	12/18/89	90	Œ
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107 W. Andrews Dr. 1025 Anthony Broadbent 837-2471 09/13/89 12/13/89 12/18/89 91 106 W. Andrews Dr. 1033 Garcuite 825-6108 09/13/89 12/13/89 12/18/89 91 106 W. Andrews Dr. 1049 Wilkins 837-2776 09/14/89 12/13/89 12/18/89 91 109 W. Andrews Dr. 1057 Newhauser 837-2576 09/14/89 12/13/89 12/18/89 90 110 W. Andrews Dr. 1105 Nextlactery 837-4912 09/14/89 12/13/89 12/18/89 90 110 W. Andrews Dr. 1109 Punzel 837-4080 09/14/89 12/14/89 12/18/89 91 110 W. Andrews Dr. 1113 Los Laras 837-4080 09/14/89 12/14/89 12/18/89 91 111 W. Andrews Dr. 11117 Jones 837-0224 09/14/89 12/13/89 12/18/89 91	45000	107 W Andrews Dr	1017	McCam	825-2863	09/14/89	12/14/89	12/18/89	91	Æ
106 W. Andrews Dr. 1033 Garoutte 825-6108 09/13/89 12/13/89 12/18/89 91 106 W. Andrews Dr. 1041 Wilkins 837-2776 09/14/89 12/13/89 12/18/89 91 109 W. Andrews Dr. 1057 Newheuser 837-5976 09/14/89 12/13/89 12/18/89 90 110 W. Andrews Dr. 1105 Punzel 837-4912 09/14/89 12/15/89 91 110 W. Andrews Dr. 1109 Punzel 837-4080 09/14/89 12/14/89 12/18/89 91 111 W. Andrews Dr. 1113 Los Laras 837-4080 09/14/89 12/14/89 12/18/89 91 111 W. Andrews Dr. 1113 Los Laras 837-0224 09/14/89 12/13/89 91	0000	107 W Andrews Dr	1025	Anthony Proseftient	R37-2471	09/13/89	12/13/89	12/18/89	16	Œ
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109 W. Andrews Dr. 1049 Gay Gay 837-0289 G9/14/89 G2/13/89 GA/18/89 GA/14/89 GA/14	70167	W Andress	1041	Wilking	837-2776	09/14/89	12/13/89	12/18/89	0	Œ
109 W. Andrews Dr. 1057 Newheuser 837-5976 09/14/89 12/13/89 12/18/89 90 110 W. Andrews Dr. 1109 Punzel 837-4912 09/14/89 12/14/89 12/18/89 92 110 W. Andrews Dr. 1109 Punzel 837-4080 09/14/89 12/14/89 12/18/89 91 111 W. Andrews Dr. 1113 Los Laras 837-9590 09/14/89 12/14/89 12/18/89 91 111 W. Andrews Dr. 1117 Jones 837-0224 09/14/89 12/13/89 91	40104	3	070	1	837-0289	09/14/89	12/13/89	12/18/89	8	Æ
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111 W. Andrews Dr. 1117 Jones 837-0224 09/13/89 12/13/89 12/18/89 91	10000		9011	Pinzel	837-4080	09/14/89	12/14/89	12/18/89	5	AXB
111 W. Andrews Dr. 1117 Jones 837-0224 09/14/89 12/13/89 12/18/89 90	844004	A Andrew	1113	Los lams	837.9590	09/13/89	12/13/89	12/18/89	9	X E
	343129	W. Andrews	1117	Jones	837-0224	09/14/89	12/13/89	12/18/89	06	X Z

*Key to Remarks:

- SE

Sun Prairie Army Housing Area (Cont'd) Sun Prairie, Wisconsin 53590 Indoor Radon Monitoring Conditions

Definctor No.	Adbess	<u> </u>	Occupents	Telephone No. (608)	Date of	De e	Peosived Date	Oursition (days)	Remarks [®]
			No meidon		09/14/89	12/13/89	12/18/89	90	GLR
1643113	112 W. Andrews Dr.	1711	No les con	0360 170	00/15/80	12/13/89	12/18/89	68	Œ
646985	112 W. Andrews Dr.	1125	Car.	7567 756	00/14/00	12/13/80	12/18/89	06	χ π
	113 W. Andrews Dr.	1201	Scrivine	837-1314	60/41/60	00/01/01	00/01/21		AKD
	113 W. Andrews Dr.	1205	Kelly Shattuck	837-9658	09/13/89	12/13/89	69/91/21	'n	
				D37 OCED	08/13/80	12/13/89	12/18/89	16	AKB
1644025	℥	1205	Keny Shamook	9000-100	00/44/00	12/15/80	12/18/89	92	Œ.
343120	114 W. Andrews Dr.	1209	Schick	953-000	09/14/00	12/13/80	12/18/89	6	E Y
546983	3	1213	Mis	837-5556	09/14/69	60/10/04	10/04/00	200	DHIER
1643114	115 W. Andrews Dr.	1210	Thrasher	837-2016	09/14/89	12/01/89	12/04/69	9	
		****	Parke	837.9445	09/13/89	12/13/89	12/18/89	16	E Y
1644029	115 W. Andrews Dr.	121	Cexter	00100	00/15/00	12/13/80	12/1R/R9	6	AKB
1643111	116 W. Andrews Dr.	1202	Aubenstein	2108-758	60/21/60	00/01/01	12/18/80	8	AKB
011878	116 W. Andrews Dr.	1202	Aubenstein	837-9612	69/01/60	60/61/21	00/01/21	a	2
1646978	116 W. Andrews Dr.	1206	Stowell	837-9103	09/12/89	12/13/69	60/01/21	6	:
				7010 700	00/15/80	12/13/89	12/18/89	68	E.
1643102	117 W. Andrews Dr.	1126	Chase	1216-150	00/11/00	42/13/80	12/18/89	80	Œ
646991	118 W. Andrews Dr.	7==	Dotson	837-3873	60/01/60	00/61/61	12/18/89	6	GKB
643112	118 W	118	No resident	1	69/01/60	60/01/21	00/01/01	6	2
1643105	119 W. Andrews Dr.	1110	Allegra	837-0993	09/14/89	12/13/89	69/91/71	2	:
			Courdor	837.2984	09/14/89	12/14/89	12/18/89	6	A P
643106	132 W.	7501	Subger Su	8037 769	00/13/00	12/13/89	12/18/89	9	a Z
647034	133 W	1034	Edey	0267-759	60/51/60	10/11/07	42/18/80	60	DIKP
643126	134 W	1026	Kelly	837-10/4	09/14/89	60/01/21	00/01/01	6 6	2
1647565	135 W. Andrews Dr.	1018			09/13/89	69/61/71	60/01/71	5	:
			-	837, 1080	09/14/89	12/13/89	12/18/89	8	Ā
1643133	136 W. Andrews Dr.	0101	Catternan	927 7443	00/13/80	12/12/89	12/18/89	06	a a
1644006	⋠	1002	Joel Schwanki	837-0412	60/61/60	20/31/31			

Capehart home MCA home Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit No deta Not returned
POR & - JORN
H Exposure < 90 days J Exact duration of exposure unknown; concentration estimated K Defector in bedroom L Defector in living room M Defector in kitchen N Defector location unknown
Ney to Hemistra: Duplicate detectors Detector placed by occupant of DEH Starting date unknown Ending date unknown Detector racelved with no seal No date sheet Unoccupied house

Appendix F

Property-Specific Monitoring Results

Ansonia Army Housing Area Ansonia, Connecticut 06401 Indoor Radon Concentrations

Summary:

Number of residental structures: 16 Number of detectors installed: 17 Number of replicate pairs: 1 Highest reported result: 16.3 Lowest reported result: 1.0

Number of detectors returned: 15 Number of outstanding detectors: 2

No.	Address	Unit No.	Exposure [(pCi/L) days]	Conc. (pCi/L)	Standard Deviation (%)	Remarks ^a
1648230	01 Ford St.	01	306.3	3.3	7.6	BKP
0	02 Hughes Cir.	02				[ND]
1648274	03 Hughes Cir.	03	96.1	1.0	12.5	ĎJŔP
0	04 Hughes Cir.	04				[ND]
1648245	05 Hughes Cir.	05	168.4	1.1	10.1	DJKP
1648270	06 Hughes Cir.	06	189.0	2.1	9.2	KP
1648260	07 Hughes Cir.	07	346.7	2.4	7.0	BKP
1648267	08 Hughes Cir.	08	246.8	2.7	8.2	BEKP
1648257	09 Hughes Cir.	09	1064.7	8.6	4.2	ACDEJKE
1648251	09 Hughes Cir.	09	2016.6	16.3	4.0	ACDEJKE
1648246	10 Hughes Cir.	10	503.8	3.3	6.0	DHJKP
1648242	11 Hughes Cir.	11	949.6	10.8	4.3	BLP
1648272	12 Hughes Cir.	12	390.5	3.6	6.6	DJKP
1648247	13 Hughes Cir.	13	188.9	1.6	9.5	DJKP
1648277	14 Hughes Cir.	14	371.2	4.1	6.7	CJKP
1648252	15 Hughes Cir.	15	599.0	6.7	5.3	BKP
1648273	16 Hughes Cir.	16	301.1	3.0	7.4	CDJKP

- Duplicate detectors Detector placed by occupant of DEH Starting date unknown
- Ending date unknown
- Detector received with no seal
- No data sheet
- G Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- **Detector** in living room
- Detector in kitchen
- **Detector location unknown**
- Capehart home

- Gapehart home
 MCA home
 Duplex (one-story) home
 Duplex (multistory) home
 Apartment building
 Below detection limit ORST

- [ND] [NR]
- No data Not returned

East Windsor Army Housing Area East Windsor, Connecticut 06088 Indoor Radon Concentrations

Summary:

Number of residental structures: 16 Number of detectors installed: 17 Number of replicate pairs: 1 Highest reported result: 0.6 Lowest reported result: 0.2

Number of detectors returned: 14 Number of outstanding detectors: 3

No.	Address	Unit No.	Exposure [(pCi/L) days]	(pCi/L)	Standard Deviation (%)	Remarks ^e
1646457	27 Phelps Rd	01	36.5	0.3	18.3	DJKP
1646442	29 Phelps Rd.	14	38.2	0.4	18.0	ADEJKP
1645763	29 Phelps Rd	14	30.0	0.3		ADJKPU
1645769	31 Phelps Rd	15	40.0	0.4	17.7	DJKP
1646436	33 Phelps Rd.	16	34.7	0.4	18.6	DJKP
1644237	02 South Rd.	02	69.8	0.6	14.3	BNP
1645768	03 South Rd	03	64.5	0.6	14.7	DEJKP
1645762	04 South Rd	04	55.8	0.6	15.6	CJKP
0	05 South Rd	05				[ND]
1644235		06				KP[NR]
1644249		07	43.5	0.4	17.1	DEJKP
1644234	08 South Rd.	08	38.2	0.4	18.0	BKP
1645766	09 South Rd	09	41.7	0.5	17.4	KP
1644248	10 South Rd	10				KP[NR]
1645767	11 South Rd.	11	39.7	0.2	16.2	KP T
1644233	12 South Rd	12	62.2	0.4	15.4	EKP
1644246	13 South Rd	13	30.0	0.2		DEJNPU

- Duplicate detectors Detector placed by occupant of DEH Starting date unknown
- Ending date unknown
- Detector received with no seal
- No data sheet
- Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- **Detector in living room**
- Detector in kitchen
- **Detector location unknown**
- Capehart home MCA home

- Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit

- No data
- Not returned

Fairfield Army Housing Area Fairfield, Connecticut 06430 Indoor Radon Concentrations

Summary:

Number of residental structures: 28 Number of detectors installed: 30 Number of replicate pairs: 2 Highest reported result: 2.3 Lowest reported result: 0.7

Number of detectors returned: 26 Number of outstanding detectors: 4

Detector No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ^a
1648239	016 Jarvis Ct	16	243.3	2.3	8.2	DJKP
1646478	025 Jarvis Ct.	25	246.6	2.0	8.4	KP
1644216	028 Jarvis Ct	28	159.1	1.7	10.3	KP
1644212	037 Jarvis Ct.	37	180.2	2.0	9.4	CKP
1646493	042 Jarvis Ct.	42	148.6	1.6	10.3	KP
1648269	051 Jarvis Ct.	51	248.5	1.6	8.4	KP
0	058 Jarvis Ct.	58				[ND]
1644202	065 Jarvis Ct.	65				KP [NR]
1644205	070 Jarvis Ct.	70	227.9	1.4	8.4	KP
1646487	077 Jarvis Ct.	77	343.5	2.3	7.2	DJKP
1648254	084 Jarvis Ct.	84	, 131.1	1.4	11.3	EKP
1644206	089 Jarvis Ct.	89	94.3	1.0	12.6	DJKP
1648235	100 Jarvis Ct.	100	363.2	2.2	6.8	EKP
1644201	111 Jarvis Ct.	111	231.7	1.5	8.7	AKP
1644208	111 Jarvis Ct.	111	198.2	1.3	9.3	AKP
1648234	320 Quincy St.	320	187.2	2.3	9.3	BKP
1648262	321 Quincy St.	321	112.8	0.7	11.3	BCDJKP
1648258	336 Quincy St.	3 36	110.6	1.2	12.1	BDEJKP
1644214	350 Quincy St.	350	208.2	2.2	8.8	KP_
1646475	362 Quincy St	3 62	152.2	1.5	10.2	AKP
1646494	362 Quincy St.	362	152.2	1.5	10.2	AKP
1648237	376 Quincy St.	376	162.2	1.2	9.8	BCJNP
1648268	377 Quincy St.	377				KP[NR]
1648275	385 Quincy St.	385	253.5	1.8	8.0	BCJNP
1644203	394 Quincy St.	394	118.3	0.7	11.1	DJKP
1646495		3 97	148.6	1.5	10.3	KP
1648264	409 Quincy St.	409	313.8	1.8	7.3	BCKP
1648253	412 Quincy St.	412	139.9	1.2	10.6	DJKP
1644211	673 Reef Rd.	673	93.9	1.0	13.0	DEJKP
1644209	703 Reef Rd	703		•		B N P[NR]

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown
- Ending date unknown
- Detector received with no seal
- No data sheet
- Unoccupied house Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room Detector in kitchen
- **Detector location unknown**
- Capehart home
- QR
- MCA home Duplex (one-story) home Duplex (multistory) home
- S Apartment building Below detection limit
- [ND] [NR] No data
- Not returned

Manchester Army Housing Area Manchester, Connecticut 06040 Indoor Radon Concentrations

Summary:

Number of residental structures: 32 Number of detectors installed 33 Number of replicate pairs: 1 Highest reported result: 0.8 Lowest reported result: 0.3

Number of detectors returned: 31 Number of outstanding detectors: 2

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Perner ks ^a
1646453	002 Nike Cir.	002	64.5	. 0.6	14.7	KP
1646428	007 Nike Cir.	007	65.9	0.6	15.1	DJKP
1646427	008 Nike Cir	008	59 3	0.6	15.2	KP
1646429	011 Nike Cir.	011	82.7	0.6	13.7	KP
1646456	017 Nike Cir.	017	89.1	0.8	12.9	BCDEJNE
1646450	018 Nike Cir.	018	48.8	0.5	16.4	KP
1646449	019 Nike Cir.	019	80.8	0.8	13.9	DEJKP
1646461	027 Nike Cir.	027	48.8	0.4	16.4	DEJKP
1646454	029 Nike Cir.	029	64.0	0.7	15.2	DJKP
1646459	034 Nike Cir.	034	41.7	0.3	17.4	KP
1645765	037 Nike Cir.	037	43.5	0.5	17.7	BKP
1645759	041 Nike Cir.	041	30.0	0.3		DJKPU
1646425	046 Nike Cir	046	45.3	0.5	16.9	KP
1644245	049 Nike Cir.	049	45.3	0.5	16.9	BEKP
1646452	052 Nike Cir.	052	51.0	0.4	16.7	DJKP .
1646430	055 Nike Cir.	055	61.7	0.4	14.1	KP
1645760	060 Nike Cir.	060				BKP[NR]
1646443	061 Nike Cir.	061	45.4	0.5	17.4	DJKP
1646439	066 Nike Cir.	066	57.5	0.5	15.4	DEJNP
1644242	069 Nike Cir.	069				BKP[NR]
1646444	074 Nike Cir	074	43.0	0.5	17.7	KP
1646458	075 Nike Cir.	075	55.8	0.6	15.6	DEJKP
1646426	079 Nike Cir.	079	55.8	0.6	15.6	EKP
1646432	083 Nike Cir.	083	56.6	0.4	16.0	DEJKP
1646431	087 Nike Cir.	087	5.2	0.6	14.3	DJKP
1646433	088 Nike Cir.	880	30.0	0.3		KPU
1646434	089 Nike Cir.	089	43.5	0.4	17.7	ADEJKP
1646451	089 Nike Cir.	089	61.0	0.5	15.1	ADEJKF

- **Duplicate detectors**
- Detector placed by occupant of DEH
- Starting date unknown
- Ending date unknown Detector received with no seal
- No data sheet
- Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- **Detector in living room**
- Detector in kitchen
- **Detector location unknown**
- Capehart home
- QR
- Capehart home
 MCA home
 Duplex (one-story) home
 Duplex (multistory) home
 Apartment building
 Below detection limit
- S
- U
- No data [ND]
- INR Not returned

Manchester Army Housing Area (Cont'd) Manchester, Connecticut 95040 Indoor Radon Concentrations

Detector No.	Address	Unit No.	Exposure [(pCi/L) days]	Conc. (pCi/L)	Standard Deviation (%)	Remarks ^a
1644243 1646424 1646437 1644244	093 Nike Cir. 099 Nike Cir. 102 Nike Cir. 112 Nike Cir.	093 099 102 112	49.1 95.7 30.6 71.5	0.5 0.6 0.3 0.8	16.9 12.9 17.4 14.1	BKP KP KP BKP
1646435	118 Nike Cir.	118	112.8	0.6	11.3	DJKP

- Duplicate detectors Detector placed by occupant of DEH Starting date unknown

- Starting date unknown
 Ending date unknown
 Detector received with no seal
 No data sheet
 Unoccupied house
 Exposure < 90 days

- Exact duration of exposure unknown; concentration estimated
 K Detector in bedroom

- **Detector in living room**
- Detector in kitchen Detector location unknown
- ORST
- Capehart home
 MCA home
 Duplex (one-story) home
 Duplex (multistory) home
 Apartment building
 Below detection limit

- No data
- [ND] [NR] Not returned

Middletown Army Housing Area Middletown, Connecticut 06457 Indoor Radon Concentrations

Summary:

Number of residental structures: 16 Number of detectors installed: 17 Number of replicate pairs: 1 Highest reported result: 1.1 Lowest reported result: 0.3

Number of detectors returned: 17 Number of outstanding detectors: 0

No.	Address	Unit No.	Exposure [(pC/L) days]	Conc. (pCi/L)	Standard Deviation (%)	Remarks ⁶
1641543	32 Military Rd.	32	103.2	1.1	12.5	KP
1644238	42 Military Rd	42	55.8	0.4	15.6	BDJNP
1644226	49 Military Rd	49	30 5	0:3	20.0	KPU
1641517	50 Military Rd	5 0	86.4	0.9	13.5	DJKP
1645761	57 Military Rd	5 7	55 8	0.6	15.6	KP
1644232	58 Military Rd.	58	30.0	0.3	•	KPU
1644229	67 Military Rd	67	45.3	0.5	16.9	DJKP
1644252	68 Military Rd	68	30.0	0.5		HKPU
1644251	73 Military Rd.	73	31.2	0.3	19.2	KP
1644230	74 Military Rd	. 74	56.6	0.6	16.0	KP
1641519	83 Military Rd.	83	43.5	0.5	17.7	DJKP
1644225	84 Military Rd.	84	34.7	0.3	18.6	KP
1641537	89 Military Rd	89	54.7	0.6	16.2	BCJNP
1644228	90 Military Rd	90	69.6	0.5	14.7	KP
645758	97 Military Rd.	97	30.0	0.3		AKPU
1644254	97 Military Rd	97	43.5	0.5	17.1	AKP
641518	98 Military Rd	98	47.0	0.5	16.7	EKP

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown
- Ending date unknown
- Detector received with no seal
- No data sheet
- Unoccupied house Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated Detector in bedroom

- Detector in living room Detector in kitchen
- **Detector location unknown**
- Capehart home MCA home
- ORST Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit
- [ND] [NR] No data
- Not returned

Milford Army Housing Area Milford, Connecticut 06460 Indoor Radon Concentrations

Summary:

Number of residental structures: 16 Number of detectors installed: 18 Number of replicate pairs: 2 Highest reported result: 1.7 Lowest reported result: 0.5

Number of detectors returned: 17 Number of outstanding detectors: 1

No.	Address	Unit No.	Exposure [(pCi/L) days]	Conc. (pCi/L)	Standard Deviation (%)	Remarks ⁵
1648229	01 Alpha St.	01	103.1	1.1	12.1	KP
1646485	02 Alpha St	02	92.0	0.9	13.1	DJKP
1646477	03 Alpha St	03	90.8	0.8	12.8	DEJKP
1648228	04 Alpha St.	04	54.0	0.5	15.8	DEJKP
646479	05 Alpha St	05				KP [NR]
644210	06 Alpha St.	06	96.1	0.8	12.5	ADJKP
646491	06 Alpha St.	06	78.5	0.6	13.6	ADJKP
646488	07 Alpha St.	07	94.3	1.0	12.6	KP
648266	06 Alpha St.	08	257.8	1.7	8.2	DEJKP
648259	09 Alpha St.	09	67.8	0.7	14.0	CDJKP
648243	10 Alpha St.	10	45.3	0.5	16.9	BCDJNP
646480	11 Alpha St.	11				KP
648250	12 Alpha St.	12	57.5	0.6	15.4	KP
648227	13 Aipha St.	13	134.6	1.2	10.8	DJKP
648249	14 Alpha St.	14	57.5	0.6	5.4	DJKP
648276	15 Alpha St	15	83.8	0.9	13.2	EKP
648233	16 Alpha St.	16	99.6	1.1	12.3	ADJKP
648265	16 Alpha St.	16	108.3	1.2	11.9	ADJKP

- Duplicate detectors Detector placed by occupant of DEH Starting date unknown
- Ending date unknown
- BCDEF Detector received with no seal
- No data sheet
- G Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated Detector in bedroom

- **Detector** in living room
- Detector in kitchen
- **Detector location unknown**
- Capehart home MCA home
- Duplex (one-story) home Duplex (multistory) home
- CRST
- Apartment building Below detection limit
- U
- [ND] No data
- [NR] Not returned

New Britain Army Housing Area New Britain, Connecticut 06051 Indoor Radon Concentrations

Summary:

Number of residental structures: 16 Number of detectors installed: 17 Number of replicate pairs: 1 Highest reported result: 2.9 Lowest reported result: 0.5

Number of detectors returned: 15 Number of outstanding detectors: 2

No.	Address	Unit No.	Exposure [(pCi/L) days]	Conc. (pCi/L)	Standard Deviation (%)	Plemerks ⁴
1641516	006 Green St	06	85.6	0.9	13.1	KP
1641512	014 Green St	14	80.8	0.7	13.9	DJKP
1641539		05	68.0	0.7	14.4	DJKP
644227	017 Halsey St	17	257.3	2.9	8.0	BENP
1641511	031 Halsey St.	31	47.3	0.5	17.1	DJKP
641510	011 Kulper St	11	115.4	1.2	11.5	KP
641546	012 Kulper St.	12	71.5	0.8	14.1	KP
641534	019 Kulper St.	19	139.9	1.1	10.6	DEJKP
641521	020 Kulper St	20	92.6	0.7	12.7	DJKP
641549	027 Kulper Rd	27	157.4	1.2	10.1	DEJKP
0	028 Kulper St.	28				[ND]
641535	035 Kulper Rd	35	89.1	8.0	12.9	BCDJKP
641540	298 Rocky Hill Ave	298	207.5	1.4	9.1	AEJKP
1641523	298 Rocky Hill Ave.	298	188.9	1.2	9.5	AEJKP
641520		306				KP[NR]
641538		312	64.0	0.6	15.2	DEJKP
1646482	320 Rocky Hill Ave	320	66.3	0.7	14.6	KP

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown

- Ending date unknown Detector received with no seal
- No data sheet
- Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room Detector in kitchen Detector location unknown
- Capehart home
- Q MCA home
- Duplex (one-story) home Duplex (multistory) home
- Apartment building Below detection limit
- [ND] [NR] No data
- Not returned

Orange Army Housing Area Orange, Connecticut 06477 Indoor Radon Concentrations

Summary:

Number of residental structures: 20 Number of detectors installed: 24 Number of replicate pairs: 4 Highest reported result: 2.2 Lowest reported result: 0.5

Number of detectors returned: 20 Number of outstanding detectors: 4

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remerks ^a
. 0	343 Smith Farm Rd					[ND]
1648284	348 Smith Farm Rd		114.3	1.2	12.0	AKP
1646447	348 Smith Farm Rd		115.4	1.2	11.5	AKP
1646445	349 Smith Farm Rd		108.3	1.1	11.9	KP
1646440	350 Smith Farm Rd		153.5	1.0	10.5	KP
1648281	351 Smith Farm Rd.		99.6	1.1	12.3	KP
1646441	354 Smith Farm Rd.		166.2	1.8	9.8	BENP
1648282	355 Smith Farm Rd		66.3	1.5	14.6	AHKP
1646480	355 Smith Farm Rd.		103.1	1.2	12.1	AKP
1646446	359 Smith Farm Rd					KP[NR]
1648278	363 Smith Farm Rd		113.6	1.3	11.6	DJKP
1648285	342 Sybil St.		168.4	1.1	10.1	KP
1642288	345 Sybil St.		226.1	1.7	8.5	GMP
1646469	349 Sybil St.		80.3	0.9	13.5	KP
1648279	350 Sybil St.					AKP[NR]
1648280	350 Sybil St					AKP[NR]
1648286	351 Sybil St.		52.3	0.5	16.0	DJKP
1642300	353 Sybil St		89.1	1.0	12.9	KP
1646422	354 Sybil St.		200.1	2.2	9.3	AKP
1646423	354 Sybil St.	,	199.5	2.2	9.0	AKP
1646421	355 Sybil St		157.4	1.6	10.1	DEJKP
1646438	358 Sybil St.		78.5	0.8	13.6	DJKP
1648287	359 Sybil St.		85.6	0.8	13.1	DEJKP
1642286	362 Sybil St		101.3	0.8	12.2	DJKP

- **Duplicate detectors**
- Detector placed by occupant of DEH
- Starting date unknown
- Ending date unknown
 Detector received with no seal
 No data sheet
- Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- **Detector in living room**
- Detector in kitchen
- **Detector location unknown**
- Capehart home MCA home
- ORS
- Duplex (one-story) home
- Duplex (multistory) home
- Apartment building Below detection limit Ü
- No data
- Not returned

Piainville Army Housing Area Piainville, Connecticut 06062 Indoor Radon Concentrations

Summary:

Number of residental structures: 32 Number of detectors installed: 36 Number of replicate pairs: 4 Highest reported result: 1.6 Lowest reported result: 0.4

Number of detectors returned: 18 Number of outstanding detectors: 18

Detector No.	Address	Unit No.	Exposure (pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Pernerks ^a
1643451	01 Cassidy Dr.	01	234.5	2.5	8.4	EJKP
1643438	02 Cassidy Dr.	02		•		AKP[NR]
1643456	02 Cassidy Dr.	02				AKP[NR]
1641527	03 Cassidy Dr.	03	315.6	3.4	7.5	DEJKP
0	04 Cassidy Dr.	04				[ND]
1643454	05 Cassidy Dr.	05				KP[NR]
1643455	06 Cassidy Dr.	06	125.9	1.3	11.1	DJKP
1641552	07 Cassidy Dr	07				KP[NR]
1643423	08 Cassidy Dr.	80				KMP[NR]
1641550	09 Cassidy Dr.	09	82 7	0.8	13.7	DJKP
1641533	10 Cassidy Dr.	10	120.6	1.3	11.3	DJKP
0	11 Cassidy Dr.	11				[ND]
1641525	12 Cassidy Dr.	12	87.3	0.9	13.0	AKP
1641526	12 Cassidy Dr.	12	40 0	0.4	17.7	AKP
1641560	13 Cassidy Dr.	13	66.3	0.7	14.6	EKP
1641553	14 Cassidy Dr.	14				KP[NR]
1641514	15 Cassidy Dr	15	40.C	0.4	17.7	DJKP
1641515	16 Cassidy Dr	16				KP[NR]
1641536	17 Cassidy Dr.	17				AKP[NR]
1641522	17 Cassidy Dr.	17				AKP[NR]
1641547	18 Cassidy Dr.	16				KP[NR]
1641555	19 Cassidy Dr	19				KP[NR]
1641559	20 Cassidy Dr	20	127.4	1.4	11.4	DEJKP
0	21 Cassidy Dr.	21				[ND]
1641551	22 Cassidy Dr.	22				KP [NR]
1641532	23 Cassidy Dr.	23	30.0	0.3		DJKPU
1641544	24 Cassidy Dr.	24	119.9	1.3	11.7	KP
0	25 Cassidy Dr.	25				[ND]

*Key to Remarks:

A	Duplicate	detectors

Detector placed by occupant of DEH Starting date unknown Ending date unknown

CDEF Detector received with no seal

No deta sheet

G

Unoccupied house Exposure < 90 days

Exact duration of exposure unknown; concentration estimated Detector in bedroom

Detector in living room Detector in kitchen Detector location unknown

Q R

Capehart home
MCA home
Duplex (one-story) home
Duplex (multistory) home
Apartment building

Below detection limit No data

[ND]

Not returned

Plainville Army Housing Area (Cont'd) Plainville, Connecticut 06062 Indoor Radon Concentrations

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ^a
1641557	26 Cassidy Dr.	26	227.9	1.3	8.4	EKP
0	27 Cassidy Dr.	27				[ND]
1641558	28 Cassidy Dr.	28	90.1	1.0	13.2	KP
0	29 Cassidy Dr.	29				[ND]
641556	30 Cassidy Dr.	30	151.6	1.6	10.5	DJKP
641529	31 Cassidy Dr	31	139.9	1.5	10.6	KP
641545	32 Cassidy Dr.	32	127.4	1.4	11.4	ADEJKP
641513	32 Cassidy Dr.	32	113.6	1.2	11.6	ADEJKP

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown Ending date unknown

- Detector received with no seal
- No data sheet
- Unoccupied house
- Exposure < 90 days
- Exact duration of exposure
- unknown; concentration estimated K Detector in bedroom

- **Detector** in living room
- Detector in kitchen
- **Detector location unknown**
- Capehart home

- Capehart home
 MCA home
 Duplex (one-story) home
 Duplex (multistory) home
 Apartment building
 Below detection limit

- [ND] [NR] No data
- Not returned

Portland Army Housing Area Portland, Connecticut 06480 Indoor Radon Concentrations

Summary:

Number of residental structures: 15 Number of detectors installed: 16 Number of replicate pairs: 1 Highest reported result: 1.5 Lowest reported result: 0.4

Number of detectors returned: 15 Number of outstanding detectors: 1

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks
1644250	01 Thompson Hill Rd	01	80.8	0.9	13.9	KP
1645757	02 Thompson Hill Rd	02	105.0	1.1	12.4	KP
1644218	03 Thompson Hill Rd	03	92.0	1.0	13.1	KP
1644222	04 Thompson Hill Rd	04	73.3	0.8	14.0	AKP
1644224	04 Thompson Hill Rd	04	68.0	0.7	14.4	AKP
644219	05 Thompson Hill Rd	05	69.8	0.7	14.3	KP
1644241	06 Thompson Hill Rd	06	80.3	0.9	13.5	KP
1644255	07 Thompson Hill Rd.	07	32.4	0.4	19.6	KP
1644221	06 Thompson Hill Rd	30	69.8	0.8	14.3	KP
1644223	09 Thompson Hill Rd	09	134.8	1.5	11.1	KP
1645764	10 Thompson Hill Rd.	10	73.3	0.6	14.0	DJKP
1644220	11 Thompson Hill Rd.	11	54.7	0.5	16.2	CDJKP
1644231	13 Thompson Hill Rd.	13	63.3	0.7	14.6	KP
1644236	14 Thompson Hill Rd	14	30.0			CDEJNP
1644240	15 Thompson Hill Rd	15	64.5	0.9	14.7	BCHJNP
1644247	16 Thompson Hill Rd	16	80.3	0.7	13.5	DEJKP

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown
- CDEFG
- Ending date unknown Detector received with no seal
- No data sheet
- Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room Detector in kitchen Detector location unknown
- Capehart home MCA home
- QRST Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit

- No data Not returned [ND]

Shelton Army Housing Area Shelton, Connecticut 96484 Indoor Radon Concentrations

Summary:

Number of residental structures: 16 Number of detectors installed: 17 Number of replicate pairs: 1 Highest reported result: 5.9 Lowest reported result: 1.3

Number of detectors returned: 16 Number of outstanding detectors: 1

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks
1648232	01 Palmetto Cir.	01	281.0	1.5	7.6	GMP
1646466	02 Palmetto Cir.	02	243.0	1.3	8.1	GMP
1648238	03 Palmetto Cir.	03	580.8	3.1	5.4	GMP
1648236	04 Palmetto Cir.	04	718.1	3.9	4.9	GMP
1648241	05 Palmetto Cir.	05	449.0	2.4	6.1	GMP
1648261	06 Palmetto Cir	06	586.2	3.2	5.4	GMP
648240	07 Palmetto Cir.	07	559.1	3.0	5.5	GMP
1646468	06 Palmetto Cir.	80	924.0	5.0	4.4	GMP
1646465	09 Palmetto Cir.	09	1090.2	5.9	4.0	GMP
1648256	10 Palmetto Cir.	10	700.0	3.8	5.0	GMP
1642315	11 Palmetto Cir.	11	665.7	3.6	5.1	GMP
0	12 Palmetto Cir.	12				[ND]
1642309	13 Palmetto Cir.	13	622.4	3.3	5.3	GMP
1646471	14 Palmetto Cir.	14	649.4	3.5	5.2	AGMP
1648231	14 Palmetto Cir.	14	517.6	2.8	5.7	AGMP
1642301	15 Palmetto Cir.	15	714.5	3.8	4.9	GMP
1646045	16 Palmetto Cir.	16	449.0	2.4	6.1	GMP

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown

- Ending date unknown
 Detector received with no seal
 No data sheet
- G Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated Detector in bedroom

- **Detector in living room**
- Detector in kitchen Detector location unknown

- Capehart home
 MCA home
 Duplex (one-story) home
 Duplex (multistory) home
 Apartment building
 Below detection limit

- No data
- [ND] [NR] Not returned

Westport Army Housing Area Westport, Connecticut 06880 Indoor Radon Concentrations

Summary:

Number of residental structures: 16 Number of detectors installed: 17 Number of replicate pairs: 1 Highest reported result: 10.6 Lowest reported result: 1,2

Number of detectors returned: 14 Number of outstanding detectors: 3

No.	Address	Unit No.	Exposure [(pCi/L) days]	Conc. (pCi/L)	Standard Deviation (%)	Remarks ^a
1644207	01 Wassell Ln	01	290.1	1.6	7.6	KP
1644213	03 Wassell Ln.	03	478.1	3.7	6.0	DJKP
1646484	05 Wassell Ln.	05		• • • • • • • • • • • • • • • • • • • •	0.0	DJKPINR
1646490	06 Wassell Ln.	06	364.2	3.6	6.8	DEJKP
1646486	07 Wassell Ln.	07				KP[NR]
1646472	08 Wassell Ln.	08	1215.6	7.8	3.9	EMP
1646474	09 Wassell Ln.	09	113.6	1.2	11.6	KP
1646462	10 Wassell Ln.	10	437.8	4.8	6.2	BNP
1646481	11 Wassell Ln.	11	576.3	5.6	5.4	AKP
1644204	11 Wassell Ln.	11	495.6	4.8	5.9	AKP
1646473	12 Wassell Ln.	12				MP [NR]
1646483	15 Wassell Ln.	15	812.9	8.0	4.6	BCDEJNE
1646476	16 Wassell Ln.	16	283 6	3.1	7.6	KP
1646463	17 Wassell Ln.	17	509.7	5.3	5.8	KP
1646464	18 Wassell Ln	18	684.5	4.4	5.2	LP
1644217	19 Wassell Ln	19	260.8	2.6	8.0	DEJKP
1646489	20 Wassell Ln.	20	961.8	10.6	4.2	DJKP

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown
- CDEF Ending date unknown Detector received with no seal
- No data sheet
- Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- **Detector** in living room
- Detector in kitchen
- **Detector location unknown**
- Capehart home
- ORST MCA home
- Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit

- No deta
- [ND] Not returned

Addison Army Housing Area Addison, Illinois 60101 Indoor Radon Concentrations

Summary:

Number of residental structures: 12 Number of detectors installed: 13 Number of replicate pairs: 1 Highest reported result: 5.7 Lowest reported result: 0.9

Number of detectors returned: 11 Number of outstanding detectors: 2

No.	Address	Unit No.	Exposure [(pCi/L) days]	Conc. (pCi/L)	Standard Deviation (%)	Remarks ^a
1 6439 99	403 Army Trail Rd	403	•			KP[NR]
1645088	409 Army Trail Rd	409	329.2	3.7	7.1	DJKP
1645092	413 Army Trail Rd.	413	896.9	4.9	4.4	KP
1643997	419 Armý Trail Rd.	419	514.9	5.7	5.7	BNP
644027	403 Natoma	403	593.8	4.8	5.4	AKP
1644003	403 Natoma	403	635.9	5.2	5.2	AKP
1644024	404 Natoma	404	701.8	3.9	5.0	KP
1645086	410 Natoma	410	78.9	0.9	14.0	KP
1645087	411 Natoma	411	676.5	3.7	5.1	KP
1644002	414 Natoma	414	280.1	3.1	7.7	KP
0	415 Natoma	415				[ND]
1643991	420 Natoma	420	436.3	2.3	6.2	DEJKP
1643994	423 Natoma	423	349.6	1.9	6.9	KP

- **Duplicate detectors**
- A B C Detector placed by occupant of DEH Starting date unknown
- Ending date unknown
- Detector received with no seal
- No data sheet
- Unoccupied house G
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room Detector in kitchen
- **Detector location unknown**
- Capehart home
- Q
- Ř
- MCA home Duplex (one-story) home Duplex (multistory) home
- S
- Apartment building Below detection limit
- [ND] [NR] No data
- Not returned

Worth Army Housing Area Worth, Illinois 60463 Indoor Radon Concentrations

Summary:

Number of residental structures: 12 Number of detectors installed: 13 Number of replicate pairs: 1 Highest reported result: 5.8 Lowest reported result: 1.1

Number of detectors returned: 11 Number of outstanding detectors: 2

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks*
1644020	MCA #01	01	208.2	2.3	8.8	KP
1647030	MCA #02	02	204.7	2.2	8.9	AKP
1647031	MCA #02	02	185.5	2.0	9.3	AKP
1644021	MCA #03	03	337.6	2.0	7.1	DJKP
1644004	MCA #04	04	341.7	3.6	7.2	KP
1644005	MCA #05	05	148.6	1.5	10.3	DEJKP
1647022	MCA #06	06	883.9	5.8	4.6	KP
1647036	MCA #07	07	139.9	1.1	10.6	DEJKP
1641506	MCA #08	08	170.2	1.9	10.0	KP
1647027	MCA #09	09	194.5	2.0	9.4	EKP
1644000	MCA #10	10				KP[NR]
1641508	MCA #11	11	120.6	1.3	11.3	KP'
1641507	MCA #12	12				KP [NR]

- Duplicate detectors
 Detector placed by occupant of DEH
 Starting date unknown

- Ending date unknown
 Detector received with no seal
 No data sheet
- EFG Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room Detector in kitchen
- **Detector location unknown**

- Capehart home MCA home Duplex (one-story) home Duplex (multistory) home
- ORST
- Apartment building Below detection limit Ù
- [ND] [NR]
- No data Not returned

Croom Army Housing Area Croom, Maryland 01880 Indoor Radon Concentrations

Summary:

Number of residental structures: 3 Number of detectors installed: 13 Number of replicate pairs: 1
Highest reported result: 4.9
Lowest reported result: 0.9

Number of detectors returned: 9 Number of outstanding detectors: 4

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ^a
1643678	15470 Mt. Calvert Rd.	09A	231.0	1.8	8.4	LT
1643993	15472 Mt. Calvert Rd.	09B	368.6	2.7	6.8	MT
1643676	15474 Mt. Calvert Rd	09C	227.9	1.7	8.4	KT
1643677	15476 Mt. Calvert Rd.	09 D				AKT[NR]
643685	15476 Mt. Calvert Rd.	0 9D				AKT[NR]
1643686	15478 Mt. Calvert Rd.	09E	90.9	0.6	12.3	MT
0	15484 Mt. Calvert Rd.	12A				[ND]
0	15486 Mt. Calvert Rd.	12B				[ND]
1643687	15488 Mt. Calvert Rd.	12C	668.3	4.9	5.1	BNT
1643688	15492 Mt. Calvert Rd	04A	215.2	1.7	8.7	BNT
1647549	15494 Mt. Calvert Rd.	04B	78.1	0.6	15.4	BNT
1643680	15496 Mt. Calvert Rd.	04C	110.1	0.9	11.8	BNT
647553	15498 Mt. Calvert Rd.	04D	125.9	1.0	11.1	BNT

- **Duplicate detectors**
- Detector placed by occupant of DEH
- Starting date unknown
- Ending date unknown
- Detector received with no seal
- No data sheet
- G Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room Detector in kitchen
- Detector location unknown
- Capehart home
- ORST
- MCA home
 Duplex (one-story) home
 Duplex (multistory) home
- Apartment building Below detection limit
- Ü
- No data [ND]
- [NR] Not returned

Bedford Army Housing Area Bedford, Massachusetts 01730 Indoor Radon Concentrations

Summary:

Number of residental structures: 16 Number of detectors installed: 19 Number of replicate pairs: 3 Highest reported result: 3.6 Lowest reported result: 0.3

Number of detectors returned: 16 Number of outstanding detectors: 3

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ^a
1641159	01 Lewis Rd	01	38.2	0.4	18.0	BHKP
1641189	02 Lewis Rd	02	75.0	0.8	13.9	BKP
1641166	03 Lewis Rd	03				BKP[NR]
1641197	04 Lewis Rd.	04				KP[NR]
1641196	05 Lewis Rd.	05	129.3	1.2	11.3	ADJKP
1641170	05 Lewis Rd.	05	116.2	1.1	11.9	ADJKP
1645785	06 Lewis Rd.	06	170.2	1.8	10.0	KP
1641187	01 Mickelson Rd	1	215.2	2.4	8.7	BKP
1641160	02 Mickelson Rd.	2	208.2	2.3	8.8	BKP
1641161	03 Mickelson Rd.	2 3				BKP[NR]
1645784	04 Mickelson Rd.	4	311.6	0.3	7.3	CDJKP
1641171	05 Mickelson Rd	5	134.6	1.5	10.8	BNP
641176	06 Mickelson Rd	6	199.5	2.2	9.0	BCJNP
641193	33 Pine Hill Rd.	33	211.2	1.4	9.1	NP
1641172	35 Pine Hill Rd.	35	205.7	2.3	9.2	AKP
1641175	35 Pine Hill Rd	35	167.9	1.8	9.8	AKP
1641168	37 Pine Hill Rd	37	418.5	3.6	6.4	ACDJKP
1641179	37 Pine Hill Rd	37	376.5	3.3	6.7	ACDEJK
1641180	39 Pine Hill Rd.	39	436.2	2.6	6.3	DEJKP

*Key to Remarks:

- Duplicate detectors
- Detector placed by occupant of DEH Starting date unknown

- Ending date unknown Detector received with no seal
- No data sheet
- Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room
- **Detector** in kitchen Detector in kitchen
 Detector location unknown
 Capehart home
 MCA home
 Duplex (one-story) home
 Duplex (multistory) home
 Apartment building
 Below detection limit
 No data

- QRSTU

- [ND]
- [NR] Not returned

1

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Beverly Army Housing Area Beverly, Massachusetts 01915 Indoor Radon Concentrations

Summary:

Number of residental structures: 16 Number of detectors installed: 17 Number of replicate pairs: 1 Highest reported result: 2.9 Lowest reported result: 1.2

Number of detectors returned: 9 Number of outstanding detectors: 8

No.	Address	Unit No.	Exposure [(pCi/L) days]	Conc. (pCi/L)	Standard Deviation (%)	Plemerks ^a
0	40 Laurel St.	40				[ND]
0	41 Laurel St.	41				[ND]
1645807	42 Laurel St	42	166.2	1.6	9.8	ΚP
0	43 Laurel St.	43				[ND]
0	44 Laurel St.	44				[ND]
1645817	45 Laurel St.	45	205.7	1.4	9.2	KP'
0	46 Laurel St	46				[ND]
1645793	47 Laurel St.	47	231.0	2.5	8.4	BCDEJKF
1645773	48 Laurel St	48	197.7	2.1	9.1	DJKP
0	49 Laurel St.	49				[ND]
1645808	50 Laurel St.	50	80.3	2.9	13.5	EHKP
1642311	51 Laurel St.	51	452.6	2.5	6.1	KP
0	52 Laure! St.	52				[ND]
0	53 Laurel St	53				[ND]
1645810	54 Laurel St	54	129.4	1.3	11.0	ADJKP
1645809	54 Laurel St.	54	124.1	1.2	11.2	ADJKP
1645800	55 Laurel St	55	203.0	1.6	8.9	BCDEJKE

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown Ending date unknown

- Detector received with no seal
- No data sheet
- Unoccupied house
- Exposure < 90 days
 Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room Detector in kitchen
- **Detector location unknown**
- Capehart home MCA home
- Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit

- No data
- [NR] Not returned

Burlington Army Housing Area Burlington, Massachusetts 01803 Indoor Radon Concentrations

Summary:

Number of residental structures: 12 Number of detectors installed: 13 Number of replicate pairs: 1 Highest reported result: 4.1 Lowest reported result: 0.9

Number of detectors returned: 5 Number of outstanding detectors: 8

No.	Acto	ress	No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ^a
0	113 South E	Bedford	113				[ND]
1641198	115 South E		115	118.9	0.9	11.4	CDJKQ
1641184	117 South E		117	430.8	4.1	6.3	KQ
1641181	119 South E		119				AKQ[NR]
1641201	119 South E	Bedford	119				AKQ[NR]
1641167	121 South		121	264.3	2.0	7.9	CDJKQ
1641163	123 South		123	174.9	1.4	9.6	DEJKQ
0	125 South		125				[ND]
0	127 South I	Bedford	127				[ND]
ō	129 South I		129				[ND]
1641192	131 South		131	108.3	0.9	11.9	CDJKQ
0	133 South E		133				[ND]
0	135 South E	Bedford	135				[ND]

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown Ending date unknown

- Detector received with no seal
- No data sheet
- Unoccupied house Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room Detector in kitchen
- **Detector location unknown**
- Capehart home
- QRST MCA home Duplex (one-story) home Duplex (multistory) home
- Apartment building Below detection limit
- [ND]
- No data Not returned

Hull Army Housing Area Hull, Massachusetts 02045 Indoor Radon Concentrations

Summary:

Number of residental structures: 8 Number of detectors installed: 8 Number of replicate pairs: 0 Highest reported result: 1.1 Lowest reported result: 0.3

Number of detectors returned: 5 Number of outstanding detectors: 3

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ^a
1641202	1153 Nantasket	1153	66.3	0.7	14.6	BKP
. 0	1155 Nantasket	1155				[ND]
1641186	1157 Nantasket	1157	30.0	0.3		HKPU
0	1159 Nantasket	1159				[ND]
0	1161 Nantasket	1161				[ND]
1641169	1163 Nantasket	1163	87.3	0.8	13.0	DJKP
1643093	1165 Nantasket	1165	71.5	0.8	14.1	KP
1641157	1167 Nantasket	1167	132.9	1.1	10.8	CDEJKP

- Duplicate detectors

 Detector placed by occupant of DEH
- Starting date unknown
- Ending date unknown
 Detector received with no seal
- No data sheet
- G Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- **Detector in living room**
- Detector in kitchen
 Detector location unknown
 Capehart home
 MCA home
- ORS
- Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit

- No data
- Not returned

Nahant Army Housing Area Nahant, Massachusetts 01908 Indoor Radon Concentrations

Summary:

Number of residental structures: 12 Number of detectors installed: 13 Number of replicate pairs: 1 Highest reported result: 1.5 Lowest reported result: 0.6

Number of detectors returned: 6 Number of outstanding detectors: 7

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks*
0	294 Castle Rd	294				[ND]
1645782	296 Castle Rd	29 6				KQ[NR]
1645772	298 Castle Rd	298	64.5	0.6	14.7	DEJKO
1645783	300 Castle Rd.	300				KQ[NR]
1645805	114 Gardiner Rd.	114	145.1	1.5	10.4	CDJKO
1645781	116 Gardiner Rd	116	55.8	0.6	15.6	ADJKQ
1645780	116 Gardiner Rd.	116	66.3	0.7	14.6	ADJKQ
1645804	001 Goddard Dr.	1	, 68.0	0.6	14.4	CDEJKO
0	002 Goddard Dr.	2				[ND]
1645774	003 Goddard Dr	2 3 4	131.1	1.4	10.9	EKQ
0	004 Goddard Dr.	4				[ND]
ō	005 Goddard Dr	5				[ND]
1645812	006 Goddard Dr	6				KQ[NR]

- Duplicate detectors
- Detector placed by occupant of DEH
- Starting date unknown
- Ending date unknown
- Detector received with no seal
- No data sheet
- Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room Detector in kitchen
- **Detector location unknown**
- ORST
- Capehart home MCA home Duplex (one-story) home Duplex (multistory) home
- Apartment building Below detection limit
- [ND]
- No deta Not returned [NR]

Randolph Army Housing Area Randolph, Massachusetts 02368 Indoor Radon Concentrations

Summary:

Number of residental structures: 16 Number of detectors installed: 17 Number of replicate pairs: 1 Highest reported result: 7.7 Lowest reported result: 1.2

Number of detectors returned: 12 Number of outstanding detectors: 5

No.	•	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ⁸
1645822	01 Army S	St	01	231.0	2.2	8.4	CDJKP
1641190	02 Army S	St	02				AKP[NR]
1641162	02 Army S		02	313.4	2.3	7.3	AKP'
1641191	03 Army S		03	138.1	1.5	10.7	DJKP
0	04 Army S	St.	04				[ND]
641195	05 Army S	St.	05	395.7	3.2	6.7	EKP
643099	06 Army S	St.	06	718.2	7.7	4.9	DEJKP
0	07 Army S	St.	07				[ND]
641173	08 Army S	St	08	111.8	1.2	11.7	DJKP
0	09 Army S		09		_		INDI
645778	10 Army S		10	215.0	2.2	9.0	DJKP
641183	11 Army S	St	11	330.5	2.2	7.3	KP
645770	12 Army S	St.	12	259.7	2.6	8.2	CDEJKP
641158	13 Army S		13	120.6	1.2	11.3	DEJKP
0	14 Army S		14				[ND]
643094	15 Army S		15	189.0	2.2	9.2	BENP
641177	16 Army S	St.	16	618.7	3.4	5.3	CJKP

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown
- Ending date unknown
- Detector received with no seal
- No data sheet
- G Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- **Detector in living room**
- Detector in kitchen Detector location unknown
- Capehart home MCA home
- MERCHEST
- Duplex (one-story) home Duplex (multistory) home

- Apartment building Below detection limit
- [ND] No data
- [NR] Not returned

Swansez Army Housing Area Swanses, Massachusetts 02777 Indoor Radon Concentrations

Summary:

Number of residental structures: 16 Number of detectors installed: 16 Number of replicate pairs: 0 Highest reported result: 1.6 Lowest reported result: 0.3

Number of detectors returned: 5 Number of outstanding detectors: 11

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ^a
1644330	01 Missile Loop	01	31.2	0.3	19.2	CDJKP
0	02 Missile Loop	02				[ND]
1644331	03 Missile Loop	03	163.6	0.9	9.7	ΚP
1644327		04	62.8	0.7	14.9	CDEJKP
0	05 Missile Loop	05				[ND]
1643095	06 Missile Loop	06	187.2	1.6	9.3	CDJKP
1643090	07 Missile Loop	07				KP[NR]
0	06 Missile Loop	80				[ND]
1643078	09 Missile Loop	09				KP[NR]
0	10 Missile Loop	10				[ND]
1644333	11 Missile Loop	11	71.5	0.7	14.1	DJKP
0	12 Missile Loop	12				[ND]
ō	13 Missile Loop	13				[ND]
ŏ	14 Missile Loop	14				[ND]
ŏ	15 Missile Loop	15				[ND]
ŏ	16 Missile Loop	16				[ND]

- **Duplicate detectors**
- Detector placed by occupant of DEH
- Starting date unknown
- BCD
- Ending date unknown
 Detector received with no seal
 No data sheet EFG
- Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room Detector in kitchen
- Detector location unknown
- NPORST Gapehart home MCA home

- Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit

- No data
- [NR] Not returned

Topsfield Army Housing Area Topsfield, Massachusetts 01983 Indoor Radon Concentrations

Summary:

Number of residental structures: 16 Number of detectors installed: 16 Number of replicate pairs: 0 Highest reported result: 3.1 Lowest reported result: 1.2

Number of detectors returned: 12 Number of outstanding detectors: 4

No.		Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks
1645786	01 Nike	Village	01	131.1	1.4	10.9	KP
1645813	02 Nike		02	136.4	1.4	10.7	DEJKP
1645816	03 Nike		03	164.4	1.4	9.9	DJKP
1645795	04 Nike		04				KP [NR]
1645794	05 Nike	Village	05	234.5	2.5	8.4	DJKP
645792	06 Nike	Village	06	198.2	1.3	9.3	KP
0	07 Nike		07				[ND]
1645790	08 Nike	Village	80	108.3	1.2	11.9	BEKP
1645815	09 Nike	Village	09	178.4	1.5	9.5	BDJKP
1645802	10 Nike	Village	10				KP[NR]
1645801	11 Nike		11	152.2	1.5	10.2	DJKP
1645820	12 Nike	Village	12	75.0	0.9	13.9	DJKP
1645788	13 Nike	Village	13	285.3	3.1	7.6	BKP
1645814	14 Nike	Village	. 14	293.2	2.0	7.8	BNP
1645787	15 Nike	Village	15	192.6	1.3	9.4	DEJKP
0	16 Nike		16				[ND]

*Key to Remarks:

Duplicate detectors

Detector placed by occupant of DEH Starting date unknown

Ending date unknown

Detector received with no seal

No data sheet

Unoccupied house

Exposure < 90 days

Exact duration of exposure

unknown; concentration estimated

K Detector in bedroom

Detector in living room

Detector in kitchen

Detector location unknown

Capehart home MCA home

Duplex (one-story) home

Duplex (multistory) home . Apartment building Below detection limit

[ND] [NR] No data

Not returned

Wakefield Army Housing Area Wakefield, Massachusetts 01880 Indoor Radon Concentrations

Summary:

Number of residental structures: 12 Number of detectors installed: 12 Number of replicates: 0 Highest reported result: 1.9 Lowest reported result: 0.7

Number of detectors returned: 10 Number of outstanding detectors: 2

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks
1645776	091 Hopkins	091				KQ[NR]
1644320	099 Hopkins	099	113.6	0.9	11.6	DEJKO
1644326	107 Hopkins	107	73.3	0.7	14.0	BCJNQ
1643085	002 Torrance	02	68.0	0.7	14.4	KQ
1643070	006 Torrance	06	85.6	0.9	13.1	KQ
1643079	007 Torrance	07	67.8	0.7	14.9	KQ
1643092	010 Torrance	10	115.4	1.3	11.5	KQ
1643089	011 Torrance	11	185.5	1.7	9.3	KQ
0	012 Torrance					[ND]
1643081	015 Torrance	15	180.2	1.9	9.4	DJKQ
1642332	016 Torrance	16	140.4	1.3	10.9	DJKQ
1644337	020 Torrance	20	69.6	0.7	14.7	BDJNQ

- Duplicate detectors Detector placed by occupant of DEH Starting date unknown В
- Ending date unknown
- Detector received with no seal
- No data sheet Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room Detector in kitchen
- **Detector location unknown**
- Capehart home MCA home
- Q
- RST
- Duplex (one-story) home Duplex (multistory) home
- Apartment building Below detection limit
- No data Not returned

Franklin Lakes Army Housing Area Franklin Lakes, New Jersey 07430 Indoor Radon Concentrations

Summary:

Number of residental structures: 24 Number of detectors installed: 26 Number of replicate pairs: 2 Highest reported result: 1.4 Lowest reported result: 0.5

Number of detectors returned: 14 Number of outstanding detectors: 12

Detector No.	Address	No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remerks ^a
1643652	213 Patrick Brems Dr.	213	112.5	1.2	12.0	LP
1643647	214 Patrick Brems Dr.	214	100.0	0.6	11.9	LP
1643648	215 Patrick Brems Dr.	215	71.5	0.5	14.6	LP
1643665	216 Patrick Brems Dr.	216	104.8	1.1	12.0	DJLP
1643651	217 Patrick Brems Dr.	217				NP[NR]
1643658	218 Patrick Brems Dr.	218	104.8	8.0	12.0	AKP
1643673	218 Patrick Brems Dr.	218	64.5	0.5	14.7	AKP
1643637	219 Patrick Brems Dr.	219				BNP[NR]
1643671	220 Patrick Brems Dr.	220				BNP[NR]
1643644	221 Patrick Brems Dr.	221	140.4	1.4	10.9	DJLP
1643667	222 Patrick Brems Dr.	222	85.6	0.9	13.1	DJLP
1643650	223 Patrick Brems Dr.	223	52.9	0.5	16.4	BNP
1643657	224 Patrick Brems Dr	224				BNP[NR]
1645435	201 S. Brems Ct.	201				BGNPINR
0	202 S. Brems Ct.	202				[ND]
1643668	203 S. Brems Ct.	203				LP[NR]
1643664	204 S. Brems Ct	204	71.5	0.7	14.1	LP
1643666	205 S. Brems Ct.	205				BNP[NR]
1643645	206 S. Brems Ct.	206				BNP[NR]
1643642	207 S. Brems Ct.	207	64.5	0.7	14.7	ADEJLP
1643653	207 S. Brems Ct.	207	48.8	0.5	16.4	ADEJLP
1643646	208 S. Brems Ct.	208	59.3	0.7	15.2	LP
1643643	209 S. Brems Ct.	209	62.8	0.6	14.9	DJKP
1643672	210 S. Brems Ct.	210				BNP[NR]
1647468	211 S. Brems Ct.	211	•		4	BGNP[NR]
1643654	212 S. Brems Ct.	212				LP[NR]

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown Ending date unknown

- Detector received with no seal
- No data sheet
- Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- **Detector in living room**
- Detector in kitchen
- Detector location unknown
 Capehart home
 MCA home

- Duplex (one-story) home
- Duplex (multistory) home Apartment building Below detection limit

- No data
- Not returned

Holmdel Army Housing Area Holmdel, New Jersey 07733 Indoor Radon Concentrations

Summary:

Number of residental structures: 12 Number of detectors installed: 13 Number of replicate pairs: 1 Highest reported result: 3.3 Lowest reported result: 0.5

Number of detectors returned: 11 Number of outstanding detectors: 2

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ^a
1645885	201 Telegraph Rd	201	162.7	1.8	9.9	LP
1643641	202 Telegraph Rd.	202	183 7	2.0	9.4	LP
1643238	203 Telegraph Rd	203	59.3	0.6	15.2	DJLP
1647467	204 Telegraph Rd	204	104.8	1.1	12.0	LP
1643662	205 Telegraph Rd	205				NP[NR]
1643240	206 Telegraph Rd.	206	75.2	0.8	14.3	AKP
1643244	206 Telegraph Rd.	206	103.1	1.0	12.1	AKP
1643640	207 Telegraph Rd	207	43.5	0.5	17.7	LP
1645884	208 Telegraph Rd	208				BGNPINE
1643242	209 Telegraph Rd.	209	127.6	1.3	11.0	DEJLP
1643247	210 Telegraph Rd.	210	185.9	1.2	9.2	LP
1643241	211 Telegraph Rd.	211	175.8	1.9	9.9	LP
1643649	212 Telegraph Rd	212	315.3	3.3	7.2	LP

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown
- Ending date unknown
- Detector received with no seal
- No data sheet
- G Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- **Detector in living room**
- Detector in kitchen
- **Detector location unknown**
- Capehart home
- MCA home
- Duplex (one-story) home
- STU Duplex (multistory) home Apartment building Below detection limit
- [ND] No data
- Not returned

Livingston Army Housing Area East Hanover Twp., New Jersey 07936 Indoor Radon Concentrations

Summary:

Number of residental structures: 32 Number of detectors installed: 35 Number of replicate pairs: 3 Highest reported result: 3.1 Lowest reported result: 0.4

Number of detectors returned: 22 Number of outstanding detectors: 13

Detector No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Pernerio ^a
1643670	201 Homung Ct.	01				BNP[NR]
1643243	202 Hornung Ct.	02	148.6	1.6	10.3	HLP
1645434	203 Hornung Ct.	03	174.9	1.8	9.6	LP
1645439	204 Hornung Ct.	04	269.0	1.8	8.1	DELP
1643663	205 Hornung Ct.	05				LP[NR]
1643675	206 Hornung Ct.	06	185.5	2.0	9.3	LP
1645427	207 Hornung Ct.	07	117.1	1.2	11.5	LP
1645925	208 Hornung Ct.	80	82.1	0.8	13.4	LP
1645900	209 Hornung-Ct.	09				LP[NR]
1643661	210 Hornung Ct.	10				BNP[NR]
1645898	211 Hornung Ct.	11				LP[NR]
1645926	212 Hornung Ct.	12				LP[NR]
1645908	213 Homung Ct	13				BNP[NR]
1645423	214 Hornung Ct.	14	121.8	1.3	11.6	LP
1645426	215 Homung Ct	15	196.0	2.2	9.1	KP
1643245	216 Homung Ct	16				G N P [NR]
1643246	217 Hornung Ct.	17				BNP[NR]
1643674	218 Homung Ct.	18	157.2	1.1	10.4	ALP
1643660	218 Homung Ct	18	229.9	1.6	8.7	ALP
1645902	219 Hornung Ct.	19				BNP[NR]
1645923	220 Homung Ct.	20	111.8	1.1	11.7	LP
1645432	221 Hornung Ct.	21				ALP[NR]
1645920	221 Hornung Ct.	21	302.9	3.1	7.4	AELP
1645922	222 Homung Ct.	22	120.6	1.0	11.3	ADJLP
1645911	222 Homung Ct.	22	108.8	0.9	12.2	ADJLP
1645919		23	136.4	1.2	10.7	DJMP
1645431	224 Hornung Ct.	24	113.6	1.1	11.6	KP
1645428	225 Hornung Ct.	25				LP[NR]

*Key to Remarks

Duplicate detectors

Detector placed by occupant of DEH Starting date unknown

Ending date unknown Detector received with no seal

No data sheet

Ġ Unoccupied house

Exposure < 90 days

Exact duration of exposure unknown; concentration estimated

Detector in bedroom

Detector in living room

MNP Detector in kitchen Detector location unknown

Capehart home
MCA home
Duplex (one-story) home Q R

S Duplex (multistory) home Apartment building Below detection limit

No data

Not returned

Livingston Army Housing Area (Cont'd) East Hanover Twp., New Jersey 07936 Indoor Radon Concentrations

Detector No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Pernerks ^a
1645928	226 Hornung Ct.	26	117.1	1.3	11.5	CDJLP
1645430	227 Hornung Ct.	27	144.2	1.4	10.8	LP
1645910	228 Hornung Ct.	28		•••		BGNPINE
1643669	229 Hornung Ct.	29	113.6	1.2	11.6	BENP
1647473	230 Homung Ct.	30	151.6	1.6	10.5	DEJMP
1645918	231 Hornung Ct.	31	92.6	1.0	12.7	LP
1645422	232 Homung Ct.	32	36.5	0.4	18.3	LP

*Key to Remarks:

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown Ending date unknown
- ABCOMF
- Detector received with no seal No data sheet
- G
- Unoccupied house
 Exposure < 90 days
 Exact duration of exposure
- unknown; concentration estimated
- K Detector in bedroom

- Detector in living room Detector in kitchen
- Detector location unknown
- QRSTU
- Capehart home MCA home Duplex (one-story) home Duplex (multistory) home
- Apartment building Below detection limit No data Not returned
- [ND] [NR]

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Old Bridge Army Housing Area Old Bridge, New Jersey 08857 Indoor Radon Concentrations

Summary:

Number of residental structures: 12 Number of detectors installed: 13 Number of replicate pairs: 1 Highest reported result: 1.2 Lowest reported result: 0.3

Number of detectors returned: 8 Number of outstanding detectors: 5

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ^a
1643237	201 Jake Brown Rd.	201	45.2	0.4	15.6	ENP
1645424	202 Jake Brown Rd	202				BGNPINE
1645906	203 Jake Brown Rd	203	111.8	1.2	11.7	LP
1645904	204 Jake Brown Rd.	204	95.7	0.9	12.9	DEJKP
1643638	205 Jake Brown Rd	205				ALPINE
1643656	205 Jake Brown Rd	205				ALP NR
1645929	206 Jake Brown Rd.	206				NP (NR)
1643639	207 Jake Brown Rd.	207	73.3	0.6	14.0	DJLP
1645429	208 Jake Brown Rd.	208				LP[NR]
1643239	209 Jake Brown Rd	209	66.3	0.7	14.6	DJKP
1643236	210 Jake Brown Rd.	210	54.0	0.6	15.8	KP
1643655	211 Jake Brown Rd.	211	54.0	0.6	15.8	DJLP
1645438	212 Jake Brown Rd.	212	56.2	0.3	14.6	DJLP

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown
- CD
- Ending date unknown
- Detector received with no seal
- No data sheet
- G Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room Detector in kitchen
- Detector location unknown

- Capehart home MCA home Duplex (one-story) home
- QRST Duplex (multistory) home
- Apartment building Below detection limit
- No data
- [ND] [NR] Not returned

Dry Hill Army Housing Ares Watertown, New York 13601 Indoor Radon Concentrations

Summary:

Number of residental structures: 27 Number of detectors installed: 28 Number of replicate pairs: 1 Highest reported result: 4.2 Lowest reported result: 0.3

Number of detectors returned: 21 Number of outstanding detectors: 7

Detector No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Pemerks ^a
1641867	239 Coughlan Dr.	239	94.3	2.4	12.6	AHKP
1641567		239	113.6	2.9	11.6	AHKP
1643443	239 Coughlan Dr.	240	384.5	4.2	6.8	KP
1643439 1641530	240 Coughlan Dr. 241 Coughlan Dr.	241	234.5	2.2	8.4	KP
1641530	24 i Cougnian Di.	241	204.0			
1643452	235 Delavan Ave	235	151.6	1.3	10.5	DEJKP
1643450	236 Delavan Ave	236	95.7	0.9	12.9	KP
0	237 Delavan Ave	237	••••			[ND]
1641564	238 Delavan Ave	238	180.2	2.0	9.4	KP
1041304	230 Delaval Ave	200				
1643413	242 Delavan Ave	242	330.5	3.1	7.3	DEJKP
1641542	243 Delavan Ave.	243	349.1	2.4	7.1	KP
1641561	232 Rathburn Dr.	232				KP[NR]
1643444	233 Rathbum Dr.	233	90.1	1.5	13.2	EKP
						M D M(D)
1641528	234 Rathburn Dr.	234				KP[NR]
1641554	255 Rathburn Dr.	255	37.9	0.6	18.6	DHJKP
0	257 Rathburn Dr.	257			40.0	DJKP [ND]
1641524	258 Rathburn Dr.	258	101.3	1.0	12.2	DJKP
1641563	244 Reardon Ave	244				KP[NR]
0	245 Reardon Ave.	245				[ND]
1643445	246 Reardon Ave.	246	269.0	3.0	8.1	KP
0	247 Reardon Ave.	247				[ND]
1641565	248 Reardon Ave.	248	278.3	2.9	7.7	EKP
1643420	249 Reardon Ave.	249	80.8	0.9	13.9	KP
1641562	250 Reardon Ave.	250	190.7	2.1	9.5	KP.
1643422	251 Reardon Ave.	251	30.0	0.3		KPU
1643419	252 Reardon Ave.	252	162.7	1.7	9.9	KP
1643424	253 Reardon Ave.	253	30.0	0.3		KPU
1643421	254 Reardon Ave.	254	68.0	0.7	14.4	KP
1643446	256 Reardon Ave.	256	220.5	2.0	8.6	KP

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown

- Ending data unknown

 Detector received with no seal
- No data sheet
- G Unoccupied house
- Exposure < 90 days
 Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- **Detector in living room**
- Detector in kitchen
- **Detector location unknown**
- Capehart home
- QR MCA home
- Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit

- [ND] No dete
- Not returned

Manhattan Beach Army Housing Area Brooklyn, New York 11235 Indoor Radon Concentrations

Summary:

Number of residental structures: 9 Number of detectors installed: 76 Number of replicate pairs: 4 Highest reported result: 0.6 Lowest reported result: 0.2

Number of detectors returned: 31 Number of outstanding detectors: 45

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ^a
1645462	115A Quentin St	115A	38.2	0.4	18.0	BNS
643183	115B Quentin St.	115B				LS[NR]
645459	116A Quentin St.	116A	30.0	0.3		DLSUINR
648220	116B Quentin St.	116B				BNS[NR]
645482	119A Quentin St.	119A				BNS[NR]
645443	119B Quentin St.	119B	30.0	0.3		CDILSU
1648172	120A Quentin St.	120A	36.5	0.4	18.3	LS
645475	120B Quentin St.	120B	30.0	0.3		LSU
1648225	121A Quentin St.	121A				LS[NR]
1645476	121B Quentin St.	121B				BNS[NR]
648217	122A Quentin St.	122A				GLS[NR]
0	122B Quentin St.	122B				[ND]
645464	125A Quentin St.	125A				LS[NR]
1645473	125B Quentin St.	125B	41.7	0.4	17.4	DEJLS
1648219	126A Quentin St.	126A				GLS[NR]
1648145	126B Quentin St.	126B				LS[NR]
1648213	129A Quentin St.	129A				LS[NR]
1645471	129B Quentin St.	129B	34.2	0.4	19.2	KS
1645452	130A Quentin St.	130A	•••			BNS[NR]
1648166	130B Quentin St.	130B	30.0	0.3		DILSU
1645472	131A Quentin St	131A				GLS[NR]
1645461	131B Quentin St.	131B	43.5	0.5	17.1	LS
0	132A Quentin St.	132A				[ND]
1645450	132B Quentin St.	132B				BNS[NR]
1645445	133A Quentin St.	133A	48.6	0.5	16.4	LS.
1648140	133B Quentin St.	133B	34.7	0.4	18.6	LS
1648168	134A Quentin St.	134A	30.0	0.5		BHNSU
1645486	134B Quentin St.	134B				BNS[NR]
1645444	135A Quentin St.	135A				LS[NR]
1645446	135B Quentin St.	135B				GLS[NR]
1648139	136A Quentin St.	136A				LS[NR]
1648215	136B Quentin St.	136B	•			LS[NR]
^a Key to Re	emarks:					

- Duplicate detectors Detector placed by occupant of DEH Starting date unknown
- Ending date unknown
- Detector received with no seal
- No data sheet
- F Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated Detector in bedroom

- Detector in living room Detector in kitchen
- **Detector location unknown**
- Capehart home
- Q
- MCA home Duplex (one-story) home Duplex (multistory) home
- Apartment building Below detection limit
- [ND] [NR] No data
 - Not returned

Manhattan Beach Army Housing Area (Cont'd) Brooklyn, New York 11235 Indoor Radon Concentrations

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ¹
1648214	139 Quentin St.	139				BNS[NR]
1648138	140 Quentin St.	140	47.3	0.5	17.1	AMS
1648149	140 Quentin St.	140	30.0	0.3		AMSU
1645442	141 Quentin St.	141				MS [NR]
1643182	142 Quentin St.	142	30.0	. 0.3		LSU
1648155	145 Quentin St.	145				GKS[NR]
1645484	146 Quentin St.	146	37.9	0.2	18.6	LS
1648222	147 Quentin St.	147	30.0	0.2		LS
1648216	148 Quentin St.	148	30.0	0.3		LSU
1645470	149 Quentin St.	149		•		ANS[NR]
1645460	149 Quentin St.	149				ANS[NR]
1648167	150 Quentin St.	150	47.0	0.3	15.4	MS
1648221	151 Quentin St	151	33.0	0.4	18.9	HLS
1648171	152 Quentin St.	152				LS[NR]
1648162	155 Quentin St.	155				LS[NR]
1648164	156 Quentin St.	156				LS[NR]
1648158	157 Quentin St.	157				LS[NR]
1645483	158 Quentin St.	158	30.0	0.5		DINSU
1645485	162A Quentin St.	162A				ABNSN
1645449	162A Quentin St.	162A				ABNSIN
1648153	162B Quentin St.	162B	41.7	0.5	17.4	LS
1648146	164A Quentin St.	164A				BNS[NR]
1645458	164B Quentin St	164B	75.2	0.6	14.3	DEJLS
1648159	166A Quentin St	1 6 6A	30.0	0.2		KSU
1648226	166B Quentin St.	166B				LS[NR]
1648174	170A Quentin St.	170A				BNS[NR]
1648165	170B Quentin St.	170B	31.2	0.4	19.2	DJLS
1648223	173A Quentin St.	173A				GLS[NR]
1645478	173B Quentin St	173B				LS[NR]
1645448	174A Quentin St.	174A			40.0	GLS[NR]
1645447	174B Quentin St	174B	32.4	0.3	19.6	DLS
1648152	175A Quentin St.	175A				AGLSIN
1648160	175A Quentin St	175A			40.0	AGLSIN
1648161	175B Quentin St	175B	32.4	0.4	19.6	LS
1648154	176A Quentin St.	176A				GLSINA
1645451	176B Quentin St.	17 6 B				GLS[NR]
1643181	177A Quentin St.	177A				LS[NR]
1648173	177B Quentin St.	177B	30.0	0.3		BNS
1648170	178A Quentin St	178A	30.0	0.3		LSU
1645463	178B Quentin St.	178B				BNS[NR]

^	national confectors
В	Detector placed by occupant of DEH
_	

- Starting date unknown Ending date unknown
- Detector received with no seal No data sheet
- Unoccupied house Exposure < 90 days G
- Exact duration of exposure unknown; concentration estimated Detector in bedroom

- Detector in living room Detector in kitchen
- Detector location unknown

- Capehart home
 MCA home
 Duplex (one-story) home
 Duplex (multistory) home
 Apartment building
 Below detection limit
- QRSTU
- [ND] [NR] No data
- Not returned

Manhattan Beach Army Housing Area (Cont'd) Brooklyn, New York 11235 Indoor Radon Concentrations

Detector No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks
1648163	181A Quentin St.	181A	30.0	0.3	-	DJLSU
1648224	181B Quentin St.	181B				BNS[NR]
1648137	182A Quentin St.	182A	3 0.0	0.2	•	LSU
1648157	182B Quentin St.	182B				GLS[NR]

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown Ending date unknown

- Detector received with no seal
- No data sheet
- G Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room Detector in kitchen Detector location unknown
- ORST
- Capehart home
 MCA home
 Duplex (one-story) home
 Duplex (multistory) home
 Apartment building
 Below detection limit

- [ND] [NR] No data Not returned

Rocky Point Army Housing Area Rocky Point, New York 11786 Indoor Radon Concentrations

Summary:

Number of residental structures: 16 Number of detectors installed: 17 Number of replicate pairs: 1 Highest reported result: 2.1 Lowest reported result: 0.8

Number of detectors returned: 10 Number of outstanding detectors: 7

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks
1645453	01 Defense Hill Rd.	01				LP[NR]
1645474	02 Defense Hill Rd	02	118.1	1.3	11.8	LP
1645487	03 Defense Hill Rd	03				GKP[NR]
1645468	04 Defense Hill Rd	04	152.2	1.7	10.2	LP
1643184	05 Defense Hill Rd	05	108.3	1.2	11.9	ALP
645465	05 Defense Hill Rd.	05	73.3	0.8	14.0	ALP
1645481	06 Defense Hill Rd.	06	108.8	1.2	12.2	DJLP
1645454	07 Defense Hill Rd.	07				LP[NR]
1645469	08 Defense Hill Rd.	08	125.9	1.3	11.1	KP
1645480	09 Defense Hill Rd.	09				LP[NR]
1645456	10 Defense Hill Rd.	10				LP[NR]
1648148	11 Defense Hill Rd.	11	88.3	0.9	13.4	LP
1645467	12 Defense Hill Rd	12	226.1	1.5	8.8	LP
1648144	13 Detense Hill Rd	13				BNP[NR]
1645479	14 Defense Hill Rd.	14	92.6	1.0	12.7	KP
1645441	15 Defense Hill Rd	15				BNP[NR]
1645466	16 Defense Hill Rd.	16	190.7	2.1	9.5	LP

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown Ending date unknown

- Detector received with no seal
- No data sheet
- Unoccupied house Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- **Detector in living room**
- Detector in kitchen
- **Detector location unknown**
- Capehart home
- Q R S
- Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit No data

- INRI Not returned

Spring Valley Army Housing Area Ramapo, New York 10977 Indoor Radon Concentrations

Summary:

Number of residental structures: 12 Number of detectors installed: 13 Number of replicate pairs: 1 Highest reported result: 0.9 Lowest reported result: 0.3

Number of detectors returned: 9 Number of outstanding detactors: 4

Detector No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ⁶
1645889	201 Grandview Ave.	201	125.5	0.8	11.5	GKP
1645886	202 Grandview Ave.	202				BNP[NR]
1645873	203 Grandview Ave.	203	92.6	0.9	12.7	DJKP
1645888	204 Grandview Ave.	204	02.0	•		KP[NR]
1647465	205 Grandview Ave.	205				ALP[NR]
1647469	205 Grandview Ave.	205	47.0	0.5	16.7	ALP
1647466	206 Grandview Ave.	206	71.5	0.8	14.1	LP
1645890	207 Grandview Ave.	207	83.8	0.7	13.2	DJLP
1645872	208 Grandview Ave.	208	88.3	0.6	13.4	LP
1647470	209 Grandview Ave.	209	30.0	0.3		BNPU
1645870	210 Grandview Ave.	210	96.4	0.6	12.0	NP
1647475	211 Grandview Ave.	211	30.4		. 2	BNP[NR]
1645863	212 Grandview Ave.	212	78.9	0.5	14.0	LP

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown
- BCDBF
- Ending date unknown Detector received with no seal
- No data sheet
- G Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room Detector in kitchen
- **Detector location unknown**
- Capehart home MCA home
- ORS
- Duplex (one-story) home Duplex (multistory) home
- Apartment building Below detection limit
- Ù
- No data
- [ND] [NR] Not returned

Tappan Army Housing Area Tappan, New York 10983 Indoor Radon Concentrations

Summary:

Number of residental structures: 36 Number of detectors installed: 39 Number of replicate pairs: 3 Highest reported result: 3.0 Lowest reported result: 0.3

Number of detectors returned: 25 Number of outstanding detectors: 14

Detector No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks*
1645887	423 Bogart Place	423				GKPINRI
1645477	424 Bogart Place	424				LP[NR]
1645865		425	30.5	0.3	20.0	LP
1645878	426 Bogart Place	426				LP[NR]
1645861	427 Bogart Place	427	80.3	0.9	13.5	LP
1645883	179 Greenbush Rd.	429	64.0	0.4	15.2	DJLP
1645866	185 Greenbush Rd.	430	75.0	0.8	13.9	LP
1645892	211 Greenbush Rd	428	116.2	1.0	11.9	BNP
0	401 Lafayette St.	401				(ND)
1647476	402 Lafayette St.	402	121.8	1.1	11.6	ĎJĹP
1647472	403 Lafayette St.	403	121.8	0.8	11.6	LP
1645880	404 Lafayette St.	404	125.5	0.8	11.5	DEJLP
1645874	405 Lafayette St.	405				KP [NR]
1645881	406 Lafayette St.	406				LP[NR]
1645894	407 Lafayette St.	407				NP[NR]
1645857	408 Lafayette St.	408	37.9	0.4	18.6	LP
1645896	409 Lafayette St.	409				BNP[NR]
1645877	410 Lafayette St.	410	68.0	0.7	14.4	LP
1645457	411 Lafayette St.	411				BNP[NR]
1645875	412 Lafayette St.	412	55.8	0.6	15.6	DJLP
1645871	413 Lafayette St.	413	82.1	0.7	13.4	ADGJKP
1648143	413 Lafayette St	413	89.1	0.7	12.9	ADGJKP
1648141	414 Lafayette St.	414				BNPNR)
1648142	415 Lafayette St.	415				GKP[NA]
1645858	416 Lafayette St.	416	58.0	0.6	14.4	LP
1647474	417 Lafayette St	417	56.6	1.5	16.0	HLP
1645882	431 Lafayette St.	431	110.6	1.2	12.1	LP
1645893	432 Lafayette St.	432	86.4	0.9	13.5	AKP

*Key to Remarks:

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown Ending date unknown

- Detector received with no seal
- No data sheet
- Unoccupied house Exposure < 90 days
- Exact duration of exposure
- unknown; concentration estimated
- K Detector in bedroom

- **Detector in living room**
- Detector in kitchen
- **Detector location unknown**
- Capehart home MCA home
- QRST
- Duplex (one-story) home Duplex (multistory) home
- Apartment building Below detection limit
- Ú
- [ND]
- No data NR Not returned

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Tappan Army Housing Area (Cont'd) Tappan, New York 10983 Indoor Radon Concentrations

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remerks ⁴
1645860	432 Lafayette St.	432	55.8	0.5	15.6	AKP
1645876	433 Lafayette St.	433	38.2	0.3	18.0	DEJLP
1645879	434 Lafayette St.	434	56.2	0.6	15.8	DEJLP
1645867	435 Lafayette St.	435	97.6	1.0	12.8	LP
1648169	436 Lafayette St.	436	62.8	0.7	14.9	ALP
1648175	436 Lafayette St.	436	97.8	1.0	12.4	ALP
1645869	215 Western Hwy.	421				L P [NR]
1645859	221 Western Hwy.	420	69.6	0.5	14.7	LP
1645868	418 Western Hwy.	418		-		BNP[NR]
1645895	419 Western Hwy	419				G K P [NR]
1645891	422 Western Hwy.	422	235.3	3.0	8.3	BNP

- Duplicate detectors Detector placed by occupant of DEH Starting date unknown

- Ending date unknown
 Detector received with no seal
 No data sheet
- G Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room Detector in kitchen Detector location unknown

- Capehart home
 MCA home
 Duplex (one-story) home
- QRS Duplex (multistory) home Apartment building Below detection limit No data

- [ND] [NR]
- Not returned

Corsopolis 71C Army Housing Area Robinson Twp., Pennsylvania 15108 Indoor Radon Concentrations

Summary:

Number of residental structures: 7 Number of detectors installed: 8 Number of replicate pairs: 1 Highest reported result: 1.6 Lowest reported result: 0.7

Number of detectors returned: 7 Number of outstanding detectors: 1

No.	Actress	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks
1436095	S118Q Ewings Mill Rd	118	101.0	1.1	11.4	DJKP
1436038	S119Q Ewings Mill Rd	119				KP[NR]
1436033	S120Q Ewings Mill Rd	120	83.5	0.9	12.6	KP
1436195	S121Q Ewings Mill Rd.	121	148.4	1.6	9.8	DJKP
400000	S122Q Ewings Mill Rd	122	83.5	0.9	12.2	DJKP
1436093	S1230 Ewings Mill Rd	123	78.3	0.7	12.5	CDJKP
1436058	S124Q Ewings Mill Rd	124	120.8	1.2	11.0	ADJKP
1436037 1436001	S124Q Ewings Mill Rd.	124	109.8	1.1	11.0	ADJKP

- Duplicate detectors
- Detector placed by occupant of DEH Starting date unknown
- Ending date unknown
- Detector received with no seal
- No data sheet
- Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- **Detector in living room**
- Detector in kitchen
- Detector location unknown
- Capehart home
- QR
- MCA home Duplex (one-story) home Duplex (multistory) home S
- Apartment building Below detection limit
- No deta
- [ND] [NR] Not returned

Corsopolis 71L Army Housing Area Moon Twp., Pennsylvania 15108 Indoor Radon Concentrations

Summary:

Number of residental structures: 5 Number of detectors installed: 5 Number of replicate pairs: 0 Highest reported result: 1.2 Lowest reported result: 1.2

Number of detectors returned: 2 Number of outstanding detectors: 3

Detactor No.	Acidress	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Pernerks ^a
1436197	S113Q Ewings Mill Rd.	113				BNP[NR]
1436075	S114Q Ewings Mill Rd.	114	153.6	1.2	9.7	BKP
1436203	S115Q Ewings Mill Rd.	115	106.3	1.2	11.2	KP
1436078	S116Q Ewings Mill Rd	116				KP[NR]
1436016	S1170 Ewings Mill Rd.	117				KP[NR]

*Key to Remarks:

Duplicate detectors Detector placed by occupant of DEH Starting date unknown

Ending date unknown

Ē Detector received with no seal

No data sheet Unoccupied house Ġ

Exposure < 90 days

Exact duration of exposure

unknown; concentration estimated Detector in bedroom

Detector in living room Detector in kitchen

MNP **Detector location unknown**

Capehart home MCA home

ORST

Duplex (one-story) home Duplex (multistory) home

Apartment building Below detection limit

[ND] No data

[NR] Not returned

Dorseyville Army Housing Area Dorseyville, Pennsylvania 15101 Indoor Radon Concentrations

Summary:

Number of residental structures: 16 Number of detectors installed: 16 Number of replicate pairs: 0 Highest reported result: 4.0 Lowest reported result: 1.3

Number of detectors returned: 11 Number of outstanding detectors: 5

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks
1436002	S13Q Myers Ln.	13	129.2	1.4	10.4	KP
1436094	S14Q Myers Ln.	14				BKP[NR]
1436087	S15Q Myers Ln.	15	251.8	2.6	7.8	KP
1436089	S16Q Myers Ln.	16	158.9	1.7	9.5	BENP
1436046	S17Q Myers Ln.	17	195.3	2.1	9.0	KP
1436072	S18Q Myers Ln.	18	125.6	1.3	10.5	KP
1436065	S19Q Myers Ln.	19	190.4	1.5	8.8	DEJKP
1436063	S20Q Myers Ln.	20	285.1	3.1	7.4	KP
1436028	S21Q Myers Ln.	21	307.1	2.2	7.4	EKP
0	S220 Myers Ln.	22				[ND]
1436000	S23Q Myers Ln.	23	372.7	4.0	6.6	DEJKP
0	S240 Myers Ln.	24				[ND]
0	S25Q Myers Ln.	25				[ND]
1436007	S26Q Myers Ln.	26	227.0	1.6	8.5	BKP
1436019	S270 Myers Ln.	27	161.7	1.5	9.8	DEJKP
0	S28Q Myers Ln.	28				[ND]

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown

- Ending date unknown Detector received with no seal EF
- No data sheet
- G Unoccupied house
- Exposure < 90 days
- Exact duration of exposure
- unknown; concentration estimated K Detector in bedroom

- **Detector in living room**
- Detector in kitchen
- **Detector location unknown**
- Capehart home

- MCA home Duplex (one-story) home Duplex (multistory) home
- Apartment building Below detection limit
- [ND] [NR] No deta
- Not returned

Elizabeth Army Housing Area Elizabeth, Pennsylvania 15037 Indoor Radon Concentrations

Summary:

Number of residental structures: 12 Number of detectors installed: 12 Number of replicate pairs: 0 Highest reported result: 12.3 Lowest reported result: 1.2

Number of detectors returned: 7 Number of outstanding detectors: 5

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ^a
1643222	\$73Q Route #4	73	122.4	1.2	11.3	ко
1643210	S74Q Route #4	74	174.0	1.6	9.9	BCDJLP
0	S75Q Route #4	75				[ND]
1643189	S76Q Route #4	76	106.6	1.2	12.0	KP'
1643188	S77Q Route #4	77	323.0	3.5	7.4	KP
1643232	\$78Q Route #4	78				KP[NR]
0	S80Q Route #4	79				[ND]
0	\$80Q Route #4	80				[ND]
1643199	S81Q Route #4	81	181.9	2.0	9.4	EKP
1643211	\$82Q Route #4	82	282.0	3.0	7.9	BLP
1643212	S83Q Route #4	83				BNP[NR]
1643086	S84Q Route #4	84	1252.7	12.3	3.7	DJKP

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown
- Ending date unknown
- Detector received with no seal
- No data sheet
- G Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room Detector in kitchen
- Detector location unknown
- Capehart home MCA home

- Duplex (one-story) home Duplex (multistory) home
- S
- Apartment building Below detection limit
- No data Not returned

Eirama Army Housing Area Eirama, Pennsylvania 15332 Indoor Radon Concentrations

Summary:

Number of residental structures: 16 Number of detectors installed: 16 Number of replicate pairs: 0 Highest reported result: 20.2 Lowest reported result: 0.8

Number of detectors returned: 13 Number of outstanding detectors: 3

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ⁴
1643214	\$085Q Route #4	85	1612.0	20.2	3.3	KP
1643200	\$086Q Route #4	86	1037.2	11.4	4.1	EKP
1643229	\$087Q Route #4	87				KP[NR]
1643235	S088Q Route #4	88	108.3	1.4	11.9	HKP
1643228	S089Q Route #4	89	211.7	2.1	8.8	BDEJKP
1643195	S090Q Route #4	90				BNP[NR]
1643204	S091Q Route #4	91	185.5	1.8	9.3	KP
1643223	S092Q Route #4	92	330.5	2.3	7.3	BKP
1643226	S093Q Route #4	93				KP [NR]
1643216	S094Q Route #4	94	243.3	2.7	8.2	BKP
1643187	S095Q Route #4	95	234.5	2.5	8.4	DJKP
1643230	S096Q Route #4	96	281.8	3.1	7.7	BKP
1643201	S097Q Route #4	97	134.6	1.4	10.8	DJKP
1644323	S098Q Route #4	98	178.4	2.0	9.5	EKP
1643202	S099Q Route #4	99	69.8	0.8	14.3	KP
1643219	\$100Q Route #4	100	80.3	0.9	13.5	BDJKP

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown

- Ending date unknown Detector received with no seal
- No data sheet
- Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated Detector in bedroom

- **Detector in living room**
- Detector in kitchen Detector location unknown
- Capehart home MCA home
- Duplex (one-story) home
- Duplex (multistory) home Apartment building Below detection limit
- No deta
- [ND] [NR] Not returned

Finleyville Army Housing Area Finleyville, Pennsylvania 15332 Indoor Radon Concentrations

Summary:

Number of residental structures: 12 Number of detectors installed: 12 Number of replicate pairs: 0 Highest reported result: 3.0 Lowest reported result: 0.9

Number of detectors returned: 10 Number of outstanding detectors: 2

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ^a
1643231	S101Q Route #4	101	288.9	3.0	7.6	ко
1643227	S102Q Route #4	102	167.9	1.8	9.8	DEJKP
1643220	\$103Q Route #4	103	164.4	1.5	9.9	DEJKP
1643185	\$104Q Route #4	104	127.6	1.4	11.0	KP
1643203	S105Q Route #4	105	141.6	1.4	10.5	DJKP
1643215	\$106Q Route #4	106	157.4	1.4	10.1	CDEJKP
1643233	\$107Q Route #4	107	211.7	1.7	8.8	BELP
1643197	\$108Q Route #4	108	134.6	1.2	10.8	BDEJKP
1643190	S109Q Route #4	109	115.4	1.1	11.5	DEJKP
1643198	\$110Q Route #4	110		• • •		KP [NR]
1643221	S111Q Route #4	111				KP (NR)
1643194	\$112Q Route #4	112	76.8	0.9	13.7	BDEJKP

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown
- Ending date unknown
- Detector received with no seal
- No data sheet
- Unoccupied house Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room Detector in kitchen Detector location unknown
- Capehart home MCA home
- Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit
- S

- [ND] No data
- Not returned

Herminie Army Housing Ares Herminie, Pennsylvanis 15642 Indoor Radon Concentrations

Summary:

Number of residental structures: 16 Number of detectors installed: 17 Number of replicate pairs: 1 Highest reported result: 18.0 Lowest reported result: 0.9

Number of detectors returned: 15 Number of outstanding detectors: 2

Detector No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remerks
1436032	\$570 Mars Hill Rd.	57	128.2	0.9	10.7	KP
	S58Q Mars Hill Rd	58	375.2	4.1	6.9	AEKP
1643208	S58Q Mars Hill Rd	58	324.9	3.6	7.4	AKP
1644339 1644338	S590 Mars Hill Rd.	59	182.3	1.1	9.3	DJKP
1643196	S60Q Mars Hill Rd	60	1128.0	9.8	4.0	DEJKP
1643191	S61Q Mars Hill Rd.	61	125.9	1.3	11.1	KP
0	S620 Mars Hill Rd.	62				[ND]
1643205	S63Q Mars Hill Rd.	63	304.7	1.9	7.4	BNP
1643224	S64Q Mars Hill Rd.	64	1636.5	18.0	3.3	KP
1643206	S65Q Mars Hill Rd	65	232.8	2.5	8.4	BKP
1643213	S66Q Mars Hill Rd	66	282.7	4.3	6.8	BLP
1643192	S67Q Mars Hill Rd.	67	104.8	1.0	12.0	KP
1643225	S68Q Mars Hill Rd.	68	164.4	1.8	9.9	KP
	S69Q Mars Hill Rd	69	134.8	0.9	11.1	KP
1643234	S700 Mars Hill Rd	70				[ND]
0 1643186	S710 Mars Hill Rd.	71	127.4	1.0	11.4	KP
1643218	S720 Mars Hill Rd	72	367.7	3.3	6.8	BNP

- Duplicate detectors
- Detector placed by occupant of DEH
- Starting date unknown
- Ending date unknown
 Detector received with no seal
 No data sheet
- Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
 K Detector in bedroom

- Detector in living room Detector in lutchen
- **Detector location unknown**
- Capehart home MCA home
- Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit
- ORST
- [ND] [NR] No deta
- Not returned

irwin Army Housing Area Irwin, Pennsylvania 15642 Indoor Radon Concentrations

Summary:

Number of residental structures: 16 Number of detectors installed: 17 Number of replicate pairs: 1 Highest reported result: 3.3 Lowest reported result: 1.0

Number of detectors returned: 10 Number of outstanding detectors: 7

Detector No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Plemerks ^a
1436083	S41Q Rd. 11	41	125.6	1.4	10.5	BDJKP
1436069	\$42Q Rd. 11	42	154.3	1.7	10.0	AKP
1643193	\$42Q Rd 11	42	178.4	2.0	9.5	AKP
1436013	S43Q Rd. 11	43	303.4	3.3	7.4	BKP
1436030	S44Q Rd. 11	44				KP [NR]
1436054	S45Q Rd. 11	45	76.5	1.2	12.6	BHKP
1643217	S46Q Rd. 11	46				K P [NR]
1436011	\$47Q Rd. 11	47	108.0	1.0	11.1	BDJKP
1436034	S48Q Rd. 11	48				KP (NR)
0	S49Q Rd. 11	49				[ND]
1436050	\$50Q Rd. 11	50	251.8	2.0	7.8	ЪЈЌР
1436066	\$51Q Rd. 11	51	137.5	1.5	10.4	BDEJKP
1436082	\$52Q Rd 11	52				KP [NR]
1436194	\$53Q Rd. 11	53	207.9	3.2	8.5	BDEHJKF
1436009	\$54Q Rd. 11	54	122.1	1.3	10.6	DJLP
0	\$55Q Rd. 11	55				[ND]
0	S56Q Rd. 11	56				[ND]

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown
- Ending date unknown
- Detector received with no seal
- No data sheet
- G Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room
- Detector in kitchen Detector location unknown
- MNP Capehart home MCA home
- Q
- Duplex (one-story) home Duplex (multistory) home
- RST
- Apartment building Below detection limit
- No data
- [ND] Not returned

Monroeville Army Housing Area Monroeville, Pennsylvania 15239 Indoor Radon Concentrations

Summary:

Number of residental structures. 12 Number of detectors installed: 12 Number of replicate pairs: 0 Highest reported result: 2.7 Lowest reported result: 0.8

Number of detectors returned: 11 Number of outstanding detectors: 1

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCvL)	Standard Deviation (%)	Remarks ^a
1436202	\$290 Rd. 2	29	115.1	1.3	10.8	BKQ
1436056 1436048	\$300 Rd 2 \$310 Rd 2	30 31	137.8	2.0	10.1	BHKP BKP[NR]
1436029	\$32Q Rd. 2	32	124.5	1.3	10.8	DJKP
1436018	\$33Q Rd. 2	33	126.3	1.1	10.8	DJKP
1436006	S340 Rd. 2	34	71.2	9.0	12.4	BKP
1436201	\$350 Rd. 2	35	99.3	1.1	11.5	BKP
1436092	S36Q Rd. 2	36	152.4	1.6	10.0	BEKP
1436071	S37Q Rd. 2	37	143.1	1.6	10.3	BKP
1436199	\$38Q Rd. 2	38	243.0	2.7	8.0	BKP
1436043	\$39Q Rd 2	39	211.4	2.3	8.5	BKP
1436064	\$400 Rd. 2	40	134.3	1.3	10.2	BKP

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown
- Ending date unknown
- Detector received with no seal
- No data sheet
- G
- Unoccupied house Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated K Detector in bedroom

- Detector in living room Detector in kitchen Detector location unknown
- NP OR

- Detector location unknow
 Capehart home
 MCA home
 Duplex (one-story) home
 Duplex (multistory) home
 Apartment building
 Below detection limit

- No data
- Not returned

Rural Ridge Army Housing Area Rural Ridge, Pennsylvania 15024 Indoor Radon Concentrations

Summary:

Number of residental structures: 12 Number of detectors installed: 12 Number of replicate pairs: 0 Highest reported result: 2.3 Lowest reported result: 0.8

Number of detectors returned: 8 Number of outstanding detectors: 4

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Deviation (%)	Remarks ¹
1436196	S01Q Crawford Run Rd	01	150.1	1.5	9.8	BKP
1436012	S02Q Crawford Run Rd.	02	67.7	1.2	13.1	BHKP
1436026	S03Q Crawford Run Rd.	03	162.4	1.8	9.4	BKP
0	\$04Q Crawford Run Rd.	04				[ND]
0	S05Q Crawford Run Rd.	05				[ND]
1436041	S06Q Crawford Run Rd.	06	120.8	1.3	11.0	KP"
1436010	S07Q Crawford Run Rd.	07				KP [NR]
1436003	S08Q Crawford Run Rd.	08	123.2	0.8		DJKP
1436027	S09Q Crawford Run Rd.	09	209.1	1.3		DEJKP
1436005	S10Q Crawford Run Rd.	10				KP[NR]
436068	S11Q Crawford Run Rd.	11	202.7	2.3	8.6	KP' '
1436020	S12Q Crawford Run Rd.	12	173.8	1.2	9.3	KP

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown Ending date unknown

- Detector received with no seal
- No data sheet
- Unoccupied house
- Exposure < 90 days
- Exact duration of exposure
- unknown; concentration estimated
- Detector in bedroom

- **Detector in living room**
- Detector in kitchen Detector location unknown
- Capehart home MCA home

- Duplex (one-story) home Duplex (multistory) home
- Apartment building Below detection limit No data
- [NR] Not returned

Davisville Army Housing Ares North Kingston, Rhode Island 02852 Indoor Radon Concentrations

Summary:

Number of residental structures: 21 Number of detectors installed: 63 Number of replicate pairs: 1 Highest reported result: 1.9 Lowest reported result: 0.3

Number of detectors returned: 42 Number of outstanding detectors: 21

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks
1647492	01 Navy	01	65.9	0.5	15.1	ENS
1647491	02 Navy	02				BNS[NR]
1642341	03 Navy	03				BNS[NR]
1647489	04 Navy	04				BNS[NR]
1643075	05 Navy	05	68.0	0.7	14.4	BENS
1642327	06 Navy	06	73.4	0.9	14.4	DINS
1642336	07 Navy	07	68.0	0.7	14.4	DEJNS
1642328	06 Navy	08	122.4	0.9	11.3	NS
0	09 Navy	09				[ND]
1647478	10 Navy	10	48.8	0.5	16.4	NS
1642342	11 Navy	11				LS[NR]
1642348	12 Navy	12	71.5	0.5	14.6	ENS
0	13 Navy	13				[ND]
1642312	14 Navy	14				NS[NR]
0	15 Naw	15				[ND]
1647483	16 Navy	16	51.0	0.4	16.7	DINS '
1642340	17 Navy	17	99.4	1.0	12.7	DEJLS
1647481	18 Navy	18	82.1	0.9	13.4	NS
1642344	19 Navy	19				BLS[NR]
1642345	20 Navy	20	181.4	1.3	9.7	EMS
ō	21 Navy	21				[ND]
1642346	22 Navy	22	85.6	0.9	13.1	DJNS
1642339	23 Navy	23	76.8	0.8	13.7	MS
1642320	24 Navy	24				NS[NR]
1642338	25 Navy	25	58.4	0.5	15.8	EMS
1647485	27 Navy	27	122.4	1.4	11.3	MS
04,400	29 Navy	29				[ND]
1642343	31 Navy	31	116.5	0.7	11.2	ĹS

*Key to Remarks:

Duplicate detectors

Detector placed by occupant of DEH Starting date unknown Ending date unknown

Detector received with no seal

No data sheet

Unoccupied house

Exposure < 90 days

Exact duration of exposure unknown; concentration estimated

Detector in bedroom

Detector in living room Detector in kitchen Detector location unknown

OR

Capehart home MCA home Duplex (one-story) home Duplex (multistory) home

S

Apartment building Below detection limit

No data

[ND] [NR] Not returned

Davisville Army Housing Area (Cont'd) North Kingston, Rhode Island 02852 Indoor Radon Concentrations

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ^a
1642337	33 Naw	33				MS (NR)
1643080	35 Navy	35	211.7	1.9	8.8	BENS
1642318	36 Navy	36	166.2	1.3	9.8	DJNS
1643074	37 Navy	37	52.3	0.5	16.0	MS
1642319	38 Navy	38	88.3	0.9	13.4	DJNS
1642334	39 Navy	39	101.3	8.0	12.2	DJMS
0	40 Navy	40				[ND]
1642325	41 Navy	41	106.9	1.2	12.3	MS
1647484	42 Navy	42	51.0	0.6	16.7	LS
1647480	43 Navy	43	85.9	0.5	12.5	LS
1647482	44 Navy	44	99.4	1.1	12.7	NS
0	45 Navy	45				[ND]
1647477	46 Navy	46	54.7	0.3	16.2	DJNS
1643073	47 Navy	47	78.9	0.8	14.0	DJKS
0	48 Navy	48				[ND]
1642349	49 Navy	49	5 0.5	0.5	16.2	MS
1642331	50 Navy	50	76.8	8.0	13.7	ANS
1642333	50 Navy	50	69:8	0.8	14.3	ANS
1642351	51 Navy	51	113.6	0.9	11.6	MS
1642322	52 Navy	52	73.3	0.8	14.0	NS
1641199	53 Navy	53	67.8	0.6	14.9	MS
1647490	54 Navy	54				NS [NR]
0	55 Navy	55				[ND]
1647479	56 Navy	56	65.9	0.7	15.1	DINS
1644319	57 Navy	57	57.5	D .6	15.4	MS
1642329	58 Navy	58	82.7	0.9	13.7	DEJNS
1647488	59 Navy	59	179.6	1.2	9.8	DJLS
1642330	60 Navy	60	52 .3	0.6	16.0	DJNS
0	61 Navy	61				[ND]
1641200	62 Navy	62	89.1	1.0	12.9	NS
0	63 Navy	63				[ND]
1643069	64 Navy	64	97.6	0.9	12.8	DEJNS
1642335	65 Navy	65	51.0	0.7	16.7	HLS
0	66 Navy	6 6				[ND]
1647486	67 Navy	67	69.8	0.8	14.3	BMS

*Key to Remarks:

Duplicate detectors

Detector placed by occupant of DEH Starting date unknown

Ending date unknown Detector received with no seal

No data sheet

G Unoccupied house

Exposure < 90 days

Exact duration of exposure

unknown; concentration estimated

Detector in bedroom

Detector in living room

Detector in kinchen
Detector in kinchen
Detector location unknown
Capehart home
MCA home
Duplex (one-story) home
Duplex (multistory) home
Apartment building
Below detection limit
No rete

No data

Not returned

Sistersville Army Housing Area North Smithfield, Rhode Island 02895 Indoor Radon Concentrations

Summary:

Number of residental structures: 16 Number of detectors installed: 19 Number of replicate pairs: 3 Highest reported result: 2.9 Lowest reported result: 0.8

Number of detectors returned: 17 Number of outstanding detectors: 2

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Plamarks ^a
1645798	1001 Pound Hill Rd.	01	138.1	1.5	10.7	DEJKP
1642324	1002 Pound Hill Rd.	02	211.7	1.7	8.8	KP
0	1003 Pound Hill Rd.	03				[ND]
1643083	1004 Pound Hill Rd	04	341.7	2.9	7.2	DJKP
1643088	1005 Pound Hill Rd	05	82.7	0.8	13.7	DJKP
1643098	1006 Pound Hill Rd	06	259.7	2.7	8.2	ADJKP
1643097	1006 Pound Hill Rd.	06	187.2	1.9	9.3	ADJKP
1643084	1007 Pound Hill Rd	07	246.8	2.7	8.2	AKP
1643077	1007 Pound Hill Rd.	07	255.6	2.8	8.0	AKP
1643071	1006 Pound Hill Rd.	08	157.4	1.6	10.1	DJKP
1644329	1009 Pound Hill Rd.	09	78.9	0.8	14.0	BDEJNP
1643087	1010 Pound Hill Rd.	10	139.9	1.3	10.6	DJKP
1643082	1011 Pound Hill Rd.	11				KP[NR]
1643096	1012 Pound Hill Rd	12	174.9	1.9	9.6	EKP
1645777	1013 Pound Hill Rd	13	103.1	1.1	12.1	ADJKP
1641185	1013 Pound Hill Rd.	13	86.4	0.9	13.5	ADJKP
1642326	1014 Pound Hill Rd	14	111.8	1.1	11.7	NP
1643100	1015 Pound Hill Rd.	15	117.1	1.2	11.5	BNP
1643076	1016 Pound Hill Rd.	16	118.1	1.3	11.8	DJKP

- Duplicate detectors Detector placed by occupant of DEH Starting date unknown
- Ending date unknown
- Detector received with no seal No data sheet

- Unoccupied house Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- **Detector in living room**
- Detector in kitchen Detector location unknown
- **NPORST**

- Capehart home
 MCA home
 Duplex (one-story) home
 Duplex (multistory) home
 Apartment building
 Below detection limit

- [ND] [NR] No deta
- Not returned

Manassas Army Housing Area Manasses, Virginia 22111 Indoor Radon Concentrations

Summary:

Number of residental structures: 9 Number of detectors installed: 10 Number of replicate pairs: 1 Highest reported result: 1.8 Lowest reported result: 0.7

Number of detectors returned: 4 Number of outstanding detectors: 6

No.		Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ⁶
0	7801	Arden Rd.	1				[ND]
1647554	7801	Arden Rd	2	111.8	1.8	11.7	HKO
0	7801	Arden Rd	3				INDI
0	7801	Arden Rd.	4				[ND] [ND]
1643681	78 01	Arden Rd	5	108.8	1.0	12.2	ADJKQ
643689	7801	Arden Rd	5 5 6 7	75.0	0.7	13.9	ADJKQ
0	7801	Arden Rd	6				[ND]
1643691	7801	Arden Rd.	7				KP[NR]
647545	7801	Arden Rd.	8	113.6	1.3	11.6	KP
643684	7801	Arden Rd.	9				KP[NR]

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown
- Ď Ending date unknown
- Detector received with no seal
- No data sheet
- G
- Unoccupied house Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- **Detector in living room**
- MZP Detector in kitchen
- **Detector location unknown**
- ORST
- Capehart home MCA home Duplex (one-story) home
- Duplex (multistory) home
- Apartment building Below detection limit
- No data INDI
- NR Not returned

Patrick Henry Army Housing Area Newport News, Virginia 23602 Indoor Radon Concentrations

Summary:

Number of residental structures: 14 Number of detectors installed: 15 Number of replicate pairs: 1 Highest reported result: 5.4 Lowest reported result: 0.5

Number of detectors returned: 6 Number of outstanding detectors: 9

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks
1647541	Unit #01	1	285.6	3.0	•	KP
0	Unit #02					[ND]
1647558	Unit #03	2	189.8	2.0	•	AKP
		2 3 3	209.7	2.2	•	AKP
1647561	Unit #03	3	209.7	2.2		
1647562	Unit #04	4				KP[NR]
0	Unit #05	4 5 6 7				[ND]
1647564	Unit #06	6				KP[NR]
		7	95.9	1.0	•	KP .
1647567	Unit #07	,	8 3.8	1.0		•••
0	Unit #08	8 9				[ND]
1647557	Unit #09	9	504.4	5.4	5.8	KP
1647556	Unit #10	10				KP[NR]
047550	Unit #11	11				[ND]
U	Unit # 1 1					(· · · -)
0	Unit #12	12				[ND]
ŏ	Unit #13	13				[ND]
1647555	Unit #14	14	48.9	0.5	•	KP

^{*}No standard deviations reported

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown
- CD Ending date unknown
- Detector received with no seal
- No data sheet
- G Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room Detector in kitchen MARP
- **Detector location unknown**
- Capehart home MCA home
- Duplex (one-story) home Duplex (multistory) home
- ORST
- Apartment building Below detection limit No data
- [ND] [NR]
- Not returned

Woodbridge Army Housing Area Woodbridge, Virginia 22191 Indoor Radon Concentrations

Summary:

Number of residental structures: 2 Number of detectors installed: 11 Number of replicate pairs: 1 Highest reported result: 2.3 Lowest reported result: 0.7

Number of detectors returned: 8 Number of outstanding detectors: 3

No.	Address	Unit No.	Exposure [(pCi/L) days]	Conc. (pCi/L)	Standard Deviation (%)	Remarks
1647566	14000 Dawson Beach Rd.		123.7	0.9	11.5	AKT
1643690	14000 Dawson Beach Rd.		138.6	1.0	11.0	AKT
647563	14002 Dawson Beach Rd.					LT [NR]
647559	14004 Dawson Beach Rd.		149.8	1.1	10.6	LT.
643682	14006 Dawson Beach Rd.		116.5	0.7	11.2	ELT
647547	14008 Dawson Beach Rd.		140.4	1.0	10.9	KT
647544	14010 Dawson Beach Rd.		120.6	1.4	11.3	KT
647570	14011 Dawson Beach Rd.					KR [NR]
644110	14012 Dawson Beach Rd.		78.9	0.9	14.0	BLT
644095	14013 Dawson Beach Rd.		254.1	2.3	8.3	DEJKR
. 0	14014 Dawson Beach Rd.					[ND]

- Duplicate detectors
 Detector placed by occupant of DEH
 Starting date unknown

- Ending date unknown Detector received with no seal
- No data sheet
- Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- **Detector in living room**
- Detector in kitchen
- **Detector location unknown**
- Capehart home MCA home
- Q
- Duplex (one-story) home Duplex (multistory) home Apartment building
- Below detection limit
- [ND] [NR] No data
- Not returned

Midway Army Housing Area Kent, Washington 98032 Indoor Radon Concentrations

Summary:

Number of residental structures: 32 Number of detectors installed: 34 Number of replicate pairs: 2 Highest reported result: 1.8 Lowest reported result: 0.4

Number of detectors returned: 25 Number of outstanding detectors: 9

Detector No.	Ackiress	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ^a
1645136	m-01 Avenue B	m-1				KP[NR]
1645110	m-02 Avenue B	m-2	54.0	0.6	15.8	KP
1645112	m-03 Avenue B	m-3	101.3	1.1	12.2	KP
1645135	m-04 Avenue B	m-4	62.2	0.7	15.4	KP
1645126	m-05 Avenue B	m-5	78.5	0.8	13.6	ADEJKP
1645139	m-05 Avenue B	m-5	64.5	0.7	14.7	ADEJKP
1645109	m-06 Avenue B	m-6				KP[NR]
1644012	m-07 Avenue B	m-7	90.8	1.0	12.8	KP
1645119	m-06 Avenue B	m-8	106.6	1.1	12.0	KP
1644016	m-09 Avenue B	m-9	66.3	0.7	14.6	AEKP
1644015	m-09 Avenue B	m-9	76.8	0.8	13.7	AEKP
1645085	m-10 Avenue B	m-10	142.3	1.6	10.8	KP
1645125	m-11 Avenue B	m-11				KP[NR]
1645116	m-12 Avenue B	m-12	69.8	0.8	14.3	KP
1645129	m-13 Avenue B	m-13				KP[NR]
1645143	m-14 Avenue B	m-14	52.9	0.6	16.4	KP
1645141	m-15 Avenue B	m-15				KP[NR]
1645104	m-16 Avenue B	m-16	92.6	1.1	12.7	KP
1645107	m-17 Avenue B	m-17	97.6	1.1	12.8	DEJKP
1644008	m-18 Avenue B	m-18	166.5	1.8	10.1	KP
1645123	m-19 Avenue B	m-19	92.6	0.9	12.7	KP
1645142	m-20Avenue B	m-20	84.5	0.9	13.6	KP
1644030	m-21 Avenue B	m-21				KP[NR]
1645101	m-22 Avenue B	m-22	200.1	1.3	9.3	KP
1644013	m-23 Avenue B	m-23				KP[NR]
1644009		m-24	103.1	1.0	12.1	DEJNP
1645118		m-25				KP[NR]
1645124		m-26	69.8	0.7	14.3	DJKP

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown Ending date unknown Detector received with no seal No data sheet

- CDEF
- Unoccupied house
- Exposure < 90 days
 Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- **Detector in living room**
- Detector in kitchen
- **Detector location unknown**
- Capehart home MCA home
- Duplex (one-story) home
- Duplex (multistory) home Apartment building Below detection limit
- ORST
- No data
- Not returned

Midway Army Housing Area (Cont'd) Kent, Washington 98032 Indoor Radon Concentrations

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Plemerks ⁴
1645108	m-27 Jeffrey Rd.	m-27				KP [NR]
1645114	m-28 Jeffrey Rd.	m-28	77.1	0.7	14.1	KP
1645137		m-29	117.1	1.2	11.5	KP
1645113	m-30 Jeffrey Rd.	m-30	87.3	0.9	13.0	KP
1645138	m-31 Jeffrey Rd.	m-31	41.7	0.4	18.0	DJKP
1645115	m-32 Jeffrey Rd.	m-32	82.1	0.9	13.4	KP

- Duplicate detectors Detector placed by occupant of DEH Starting date unknown
- Ending date unknown
- Detector received with no seal
- No data sheet
- Ġ Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated Detector in bedroom

- **Detector** in living room
- Detector in kitchen Detector location unknown
- Capehart home MCA home

- Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit

- [ND] No data
- Not returned

Youngs Lake Army Housing Area Renton, Washington 98055 Indoor Radon Concentrations

Summary:

Number of residental structures: 28 Number of detectors installed: 31 Number of replicate pairs: 3 Highest reported result: 1.2 Lowest reported result: 0.3

Number of detectors returned: 26 Number of outstanding detectors: 5

Detector No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remerks®
1645105	L-01	L-1	30.0	- 0.3		KQU
16 45106	L-02	L-3	54.0	0.5	15.8	KO
1645099	L-03	L-3	54.0	0.5	15.8	KQ
1645097	L-04	L-4	57.5	0.6	15.4	KQ
1645098	L-05	L-5	41.7	0.5	. 17.4	KQ
1645131	L-06	L-6	37.9	0.4	18.6	DJKQ
1645096	L-07	L-7	48.9	0.5	16.7	KQ
1645089	L-08	L-8				KQ [NR]
1645094	L-09	L-9	73.3	0.6	14.0	EKP
1645095	L-10	L-10	30.5	0.3	20.0	KPU
1645117	L-11	L-11	30.0	0.3		KPU
1645093	L-12	L-12	3 0.0	0.3		EKPU
1645132	L-13	L-13	49.1	0.5	16.9	KP
1644010	L-14	L-14	51.0	0.5	16.7	KP
1645128	L-15	L-15	30.0	0.3		KPU .
1645127	L-16	L-16	55.8	0.7	15.6	HKQ
1645102	L-17	L-17	111.8	1.2	11.7	KQ
1644017	L-18	L-18				KOINRI
1644019	L-19	L-19				KQÎNRÎ
1645133	L-20	L-20				AKO[NR]
1645103	L-20	L-20				AKQ[NR]
1645122	L-21	L-21	66.3	0.7	14.6	KO
1644011	L-22	L-22	80.3	0.9	13.5	AKQ
1644014	L-22	L-22	30.0	0.3		AKQU
1645140	L-23	L-23	77.1	0.9	14.1	KQ
1644031	L-24	L-24	83.8	0.9	13.2	DJKO
1645121	L-25	L-25	59.3	0.5	15.2	AKQ
1645100	L-25	L-25	71.5	0.6	14.1	AKQ
1645130	L-26	L-26	60.3	0.7	15.6	DJKQ
1645134	L-27	L-27	71.5	0.8	14.1	DJKQ
1645120	L-28	L-28	40.0	0.3	17.7	ELP

- **Duplicate detectors**
- Detector placed by occupant of DEH Starting date unknown Ending date unknown

- Detector received with no seal
- No data sheet
- Unoccupied house Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- K Detector in bedroom

- Detector in living room Detector in kitchen Detector location unknown MNP
- Capehart home MCA home
- QR
- Duplex (one-story) home Duplex (multistory) home S
- Apartment building Below detection limit No data Ú
- [ND] Not returned

Sun Prairie Army Housing Area Sun Prairie, Wisconsin 53590 Indoor Radon Concentrations

Summary:

Number of residental structures: 76 Number of detectors installed: 118 Number of replicate pairs: 8 Highest reported result: 17.4 Lowest reported result: 1.0

Number of detectors returned: 115 Number of outstanding detectors: 3

No.	Address	Unit No.	Exposure [(pCi/L) days]	Conc. (pCi/L)	Standard Deviation (%)	Parnerks ^a
1641504	086 Andrews Dr.	1114	298.8	3.3	7.7	KR
1643996	117 Andrews Dr.	1122	220.6	2.4	8.9	KR
1644023	119 Andrews Dr.	1106	216.8	2.4	8.9	KR
1647587	095 Ent Dr.	1105	351.9	3. 9	6.9	KR
1644107	095 Ent Dr.	1109	162.8	1.8	10.2	KR
1644106	096 Ent Dr.	1113				KR[NR]
1647585	096 Ent Dr.	1117	222.3	2.5	8.6	AKR
1643122	096 Ent Dr.	1117	201.2	2.3	9.0	AKR .
1647584	097 Ent Dr.	1201	287.6	3.2	7.8	KR
1646992	097 Ent Dr.	1205	148.6	1.7	10.3	KR
1646999	098 Ent Dr.	1209	125.9	1.4	11.1	KR
1647009	098 Ent Dr.	1213	224.0	2.5	8.5	KR
1644113	099 Ent Dr.	1217	311.9	3.5	7.5	KR
1643134	099 Ent Dr.	1221	520.6	5.8	5.9	KR
1646979	100 Ent Dr.	1220	231.7	2.6	8.7	KR
1643121	100 Ent Dr.	1224	265.3	3.0	8.1	AKR
1644108	100 Ent Dr.	1224	206.5	2.3	8.9	AKR
1647588	101 Ent Dr.	1212	276.5	2.9	8.0	KR
1641509	101 Ent Dr.	1216	367.7	4.0	6.8	KR
1647586	102 Ent Dr.	1202	572.7	6.4	5.6	KR
1647033	102 Ent Dr.	1208	309.9	3.4	7.3	KR
1646996	103 Ent Dr.	1118	216.8	2.4	8.9	KR
1647004	103 Ent Dr.	1122	278.3	3.0	8.0	KR
1646997	104 Ent Dr.	1110	227.5	2.5	8.5	KR
1643123	104 Ent Dr.	1114	364.0	4.1	7.0	KR
1641505		1102	162.8	1.8	10.2	EKR
1647007	105 Ent Dr.	1106	151.6	1.6	10.5	DJKR
1647011	147 Fairchild	1001	434.3	4.8	6.2	AKR
1643130	147 Fairchild	1001	323.9	3.6	7.2	AKR
1647021	148 Fairchild	1009	198.2	2.2	9.3	DJKP
1647023		1017	326.8	3.6	7.4	KP
1647006	150 Fairchild	1101	194.2	5.9	9.1	DHJKP

- Duplicate detectors Detector placed by occupant of DEH Starting date unknown
- Ending date unknown
- Detector received with no seal
- No data sheet
- G Unoccupied house
- Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated Detector in bedroom

- **Detector in living room**
- Detector in kitchen
- **Detector location unknown**
- ZPORST Capehart home MCA home

- Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit

- No data
- Not returned

Sun Prairie Army Housing Area (Cont'd) Sun Prairie, Wisconsin 53590 Indoor Radon Concentrations

No.	Actress	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remerks ^a
1646988	151 Fairchild	1109	206.5	2.3	8.9	KP
1646994	138 Harmon Cir.	1134	308.1	3.4	7.6	KP
1644022	139 Harmon Cir.	1126	298.8	3.3	7.7	KP
1643988	140 Harmon Cir.	1118	321.2	3.5	7.4	KP
1647032	141 Harmon Cir.	1110	259.1	2.9	8.0	KP
1643990	142 Harmon Cir.	1102	211.2	2.3	9.1	KP
1643109	143 Harmon Cir.	1101	442.3	4.8	6.4	DJKP
1647015	144 Harmon Cir.	1109	339.8	3.8	7.2	KP
1647010	145 Harmon Cir.	1117	224.3	2.5	8.8	KP
1645091	146 Harmon Cir.	1129	325.7	3.6	7.2	KP
1646984	066 N. Andrews Dr.	1110	139.9	1.6	10.6	KR
1643117	087 N. Andrews Dr.	1102	534.2	6.0	5.6	KR
1646993	087 N. Andrews Dr.	1106	1101.9	12.4	4.1	KR
1647581	088 N. Andrews Dr.	1010				KR [NR]
1646980	088 N. Andrews Dr.	1014	472.1	5.2	6.2	KR
1643116	089 N. Andrews Dr.	1002	35 1.0	3.9	7.1	KR
643124	089 N. Andrews Dr.	1006	172.1	1.9	10.0	KR
1643989	120 Schumann	1026	326.8	3.6	7.4	KP
1644026	121 Schumann	1018	388.3	4.3	6.9	KP
646990	122 Schumann	1010	308.1	3.4	7.4	KP
1643998	123 Schumann	1002	183.3	4.0	9.7	KP
1647020	124 Schumann	0926	241.5	2.6	8.2	DJKP
1641501	125 Schumann	0918	311.6	3.5	7.3	KP
1647017	126 Schumann	0910	421.8	4.7	6.5	KP
1646986	127 Schumann	0902	431.1	4.8	6.5	AKP
1647016	127 Schumann	0902	387.0	4.3	6.6	AKP
1647018	128 Schumann	0830	197.7	2.2	9.1	KP
1643131	129 Schumann	0822	269.6	3.0	7.8	GKP
1647024	130 Schumann	0814	324.9	3.6	7.4	KP
1647005	131 Schumann	0806	257.3	2.9	8.0	KP
1647029	152 Sໝll	1110	216.8	2.4	8.9	KP
1647014	153 Stull	1102	192.5	2.1	9.2	KP
1647013	154 Stull	1018	390.1	4.3	6.8	KP
1647560	155 Stull	1010	317.5	3.5	7.5	KP
1647003	156 Stull	1002	309.9	3.4	7.3	NR
1647002	157 Stull	1002	157.4	1.7	. 10.1	KP
1647026	158 Sໝli	1101	4000	49.4		KP [NR]
1647001	159 Stuli	1017	1655.8	17.4	3.2	GKR
1647025	160 Stull	1009	301.1	3.3	7.4	DJKP
1647012	161 Stuli	1001	437.8	4.9	6.2	KP

- Duplicate detectors
- Detector placed by occupant of DEH Starting date unknown Ending date unknown

- Detector received with no seal
- No data sheet
- Unoccupied house Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- **Detector in living room**
- Detector in kitchen
 Detector location unknown MERGRETU
- Capehart home MCA home

- Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit No data

- (ND) (NR)
- Not returned

Sun Prairie Army Housing Area (Cont'd) Sun Prairie, Wisconsin 53590 Indoor Radon Concentrations

Detector No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks ^a
1646977	090 Vandenburg	1220	311.9	3.4	7.5	DJKR
1643132	090 Vandenburg	1224	106.9	1.2	12.3	KR
1647008	091 Vandenburg	1210	238.0	2.7	8.3	KR
1647035	091 Vandenburg	1216	218.7	2.4	8.9	KR
1641503	092 Vandenburg	1202	280.2	3.1	7.9	KR
1646998	092 Vandenburg	1206	106.9	1.2	12.3	AKR
1646995	092 Vandenburg	1206	104.8	1.2	12.0	AKR
1643127	093 Vandenburg	1110	166.2	1.9	9.8	KR
1643125	093 Vandenburg	1114	92.6	1.0	12.7	CKR
1647582	094 Vandenburg	1102	352.9	4.0	7.1	KR
1643118	094 Vandenburg	1106	373.4	4.2	6.9	KR
1643108	106 W. Andrews Dr.	1001	375.2	4.2	6.9	PR
1643107	106 W. Andrews Dr.	1009	488.9	5.4	6.1	KR
1646989	107 W. Andrews Dr.	1017	263.4	2.9	8.2	KR
1647028	107 W. Andrews Dr.	1025	401.0	4.4	6.5	KR
1647548	108 W. Andrews Dr.	1033	155.3	1.7	10.4	KR
1643104	108 W. Andrews Dr.	1041	285.3	3.2	7.6	KR
1643103	109 W. Andrews Dr.	1049	131.1	1.5	11.3	KR
1643135	109 W. Andrews Dr.	1057	451.6	5.0	6.3	KR
1647000	110 W. Andrews Dr.	1105	138.6	1.5	11.0	KR
1646987	110 W. Andrews Dr.	1109	267.1	2.9	8.1	AKR
1643128	110 W. Andrews Dr.	1109	236.3	2.6	8.3	AKR
1644001	111 W. Andrews Dr.	1113	172.1	1.9	10.0	KR
1643129	111 W. Andrews Dr.	1117	301.1	3.3	7.4	KR
1643113	112 W. Andrews Dr.	1121	248.5	2.8	8.4	GLR
1646985	112 W. Andrews Dr.	1125	271.3	3.0	7.8	KR
1643115	113 W. Andrews Dr.	1201	854.1	9.5	4.6	KR
1643995	113 W. Andrews Dr.	1205	598.8	6.6	5.5	AKR
1644025	113 W. Andrews Dr.	1205	530.7	5.8	5.7	AKR
1643120	114 W. Andrews Dr.	1209	157.2	1.7	10.4	KR
1646983	114 W. Andrews Dr.	1213	294.1	3.3	7.5	KR
1643114	115 W. Andrews Dr.	1210	215.0	2.8	9.0	DHJKR
1644029	115 W. Andrews Dr.	1214	833.6	9.2	4.7	KR
1643111	116 W. Andrews Dr.	1202	306.4	3.4	7.4 .	AKR
1643110	116 W. Andrews Dr.	1202	311.6	3.5	7.3	AKR
1646978	116 W. Andrews Dr.	1206	325.7	3.8	7.2	KR
1643102	117 W. Andrews Dr.	1126	300.7	3.4	7.7	KR
1646991	118 W. Andrews Dr.	1114	241.1	2.7	8.5	KR
1643112	118 W. Andrews Dr.	1118	352.9	4.0	7.1	GKR
. 1043 103	119 W. Andrews Dr.	1110	373.4	4.1	6.9	KR

- Duplicate detectors
 Detector placed by occupant of DEH
 Starting date unknown
 Ending date unknown
 Detector received with no seal

- CDEF
- No data sheet
- Unoccupied house
- Exposure < 90 days
 Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- **Detector** in living room
- Detector in kitchen
 Detector location unknown
 Capehart home
 MCA home

- Duplex (one-story) home Duplex (multistory) home Apartment building Below detection limit

- No data
- Not returned

Sun Prairie Army Housing Ares (Cont'd) Sun Prairie, Wisconsin 53590 Indoor Radon Concentrations

No.	Address	Unit No.	Exposure ((pCi/L) days)	Conc. (pCi/L)	Standard Deviation (%)	Remarks
1643106	132 W. Andrews Dr.	1042	190.7	2.1	9.5	KP
1647034	133 W. Andrews Dr.	1034	162.7	1.8	9.9	NP
1643126	134 W. Andrews Dr.	1026	185.2	2.0	9.6	DJKP
1647565	135 W. Andrews Dr.	1018	180.2	2.0	9.4	NP
1643133	136 W. Andrews Dr.	1010	194.5	2.2	9.4	KP
1644006	137 W. Andrews Dr.	1002	313.7	3.5	7.5	KP

- **Duplicate detectors** Detector placed by occupant of DEH Starting date unknown Ending date unknown Detector received with no seal No data sheet

- Unoccupied house Exposure < 90 days
- Exact duration of exposure unknown; concentration estimated
- Detector in bedroom

- Detector in living room Detector in kitchen
- **Detector location unknown**
- Capehart home
- OR
- Capenart nome
 MCA home
 Duplex (one-story) home
 Duplex (multistory) home
 Apartment building
 Below detection limit
 No data

- [ND] [NR]
- Not returned

Appendix G

Patrick Henry Army Housing Results
Submitted by Fort Eustis



DEPARTMENT OF THE ARMY

U. S. ARMY TRANSPORTATION CENTER PORT EUSTIS, VIRGINIA 23804-8000

REPLY TO ATTENTION OF:

March 12, 1990

Directorate of Engineering and Housing

Mr. Ron Kolpa Argonne National Laboratories 9700 S. Cass Avenue Mail Code: ER/203, B149 Argonne, Illinois 60439-4815

Dear Mr. Kolpa:

Enclosed please find the requested copies of radon detector results (Encl 1) for Fort Eustis and Patrick Henry Village, Newport News, Virginia. Also, please find the original data sheets (Encl 2) used by our personnel when collecting the detectors at Patrick Henry Housing area, Newport News, Virginia.

Any questions should be directed to Mr. William J. Barnes, Jr. at (804) 878-4123.

Sincerely,

Chief, Public Works Division

Enclosures

COMMANDER
US ARMY TRANSPORTATION CENTER
AND FORT EUSIGS
ATTN: ATZF-EH, BUILDING 1407
FORT EUSIIS, VA 23604

Tech Ops Redon Detection Protects
2 Science Roed
Condany Gerwood, Encis 80425-1586
Telephone (708) 755-7000

3604

Acct. No. 0404992

Detector Number	Detector	Starting	Ending	•	Field Dala / Commi	*	Exposure pCIII days	Avg Radon Conc pCIII			
DRIAM 28-HAR-89 14-JUL-89 8 - LESS THAN INDICATED VALUE 8 30 0 8 0 0 3											
DRIA 22-HAR-89 14-JUL-89											
DRNA 28-HAR-89 26-JAN-89 - LESS THAN INDICATED VALUE 33.1 0.4 DRNA 27-HAR-89 14-JAL-89 - LESS THAN INDICATED VALUE 34.9 0.3 DRNA 22-HAR-89 12-JAL-89 - 0.0 0.7 DRNA 22-HAR-89 12-JAL-89 0.7 DRNA 22-HAR-89 12-JAL-89 0.7 DRNA 22-HAR-89 14-JAL-89 0.7 DRNA 22-HAR-89 14-JAL-89 0.7 DRNA 28-HAR-89 14-DEC-89 0.7 DRN 09-8EF-89 14-DEC-89 0.7 DRN 0.0 0.0 0.0 DRN 0.0 0.0 DRN 0.0 0.0											
DRNA 28-HAR-B9 26-JAN-B9 RAN INDICATED VALUE 33.1 0.4 DRNA 27-HAR-B9 14-JAL-B9 - LESS THAN INDICATED VALUE 34.9 0.4 DRNA 22-HAR-B9 12-JAL-B9 - CO-HAR-B9 12-JAL-B9 0.4 DRNA 22-HAR-B9 12-JAL-B9 12-JAL-B9 0.4 DRNA 22-HAR-B9 14-JAL-B9 14-JAL-B9 DRNA 22-HAR-B9 14-JAL-B9 14-JAL-B9 DRNA 28-HAR-B9 14-DEC-B9 14-DEC-B9 DRN 09-BEP-B9 14-DEC-B9 14-DEC-B9 DRN 00-BP-BP-B9 14-DEC-B9 14-DEC-B9 DRN 00-BP-BP-B9 14-DEC-B9 14-DEC-B9 DRN											
DRIAM 28-HAR-89 26-JAN-89 - LESS THAN INDICATED VALUE											
DRNA 28-HAR-89 26-JUN-89 - LESS THAN INDICATED VALUE 33.1 0.4 DRNA 27-HAR-89 14-JUL-89 - LESS THAN INDICATED VALUE 33.9 0.4 DRNA 20-HAR-89 12-JUL-89 - 0.4 0.4 DRNA 20-HAR-89 12-JUL-89 0.4 DRNA 22-HAR-89 14-JUL-89 0.4 DRNA 22-HAR-89 14-JUL-89 0.4 DRNA 22-HAR-89 14-DEC-89 0.4 DRN 09-BEP-89 0.4 0.4 DRN 09-B											
DRNA 27-MAR-B9 14-JJL-B9 - LESB THAN INDICATED VALUE 30.0 0.4 DRNA 20-MAR-B9 12-JJL-B9 - LESB THAN INDICATED VALUE 30.0 0.7 DRNA 22-MAR-B9 12-JJL-B9 - LESB THAN INDICATED VALUE 62.0 174.7 0.7 DRNA 22-MAR-B9 12-JJL-B9 - LESB THAN INDICATED VALUE 62.0 177.7 0.7 DRNA 22-MAR-B9 14-JJL-B9 - LESB THAN INDICATED VALUE 0.7 177.7 0.7 DRNA 22-MAR-B9 14-JJL-B9 14-JJL-B9 177.4 177.4 177.7	DRNA	27-HAR-89	14-JUL-89				41.6				
DRIMA 27-HAR-BY 14-JUL-BY - LESB THAN INDICATED VALUE * 30.0 * 0.4 DRIMA 20-HAR-BY 19-JUL-BY * 17-JUL-BY * 0.7 DRIMA 22-HAR-BY 12-JUL-BY * 0.7 DRIMA 22-HAR-BY 12-JUL-BY * 0.7 DRIMA 22-HAR-BY 14-JUL-BY * 0.7 DRIMA 22-HAR-BY 14-JUL-BY * 0.7 DRIMA 22-HAR-BY 14-DEC-BY * 14-DEC-BY DRIM 09-BEP-BY 14-DEC-BY * 0.7 DRIM 09-BEP-BY 14-DEC-BY * 0.7											
DRNA 28-HAR-B9 26-JUN-B9 - LESS THAN INDICATED VALUE 33.1 0.4 DRNA 27-HAR-B9 14-JUL-B9 - LESS THAN INDICATED VALUE 33.9 0.4 DRNA 20-HAR-B9 19-JUN-B9 - LESS THAN INDICATED VALUE 0.7 0.7 DRNA 20-HAR-B9 12-JUL-B9 - R. O. 0.7 0.7 DRNA 22-HAR-B9 14-JUL-B9 - R. O. 0.7 0.7 DRNA 22-HAR-B9 14-DEC-B9 - R. O. 0.7 0.7 DRNA 28-HAR-B9 14-DEC-B9 - R. O. 0.7 0.7 DRNA 09-BEP-B9 14-DEC-B9 - R. O. 0.7 0.7 DRNA											
1647555		09-8EP-89	14-DEC-89					6 0			
DRNA 28-HAR-89 26-JAN-89 - LESS THAN INDICATED VALUE 33.1 0.4 DRNA 27-HAR-89 14-JAL-89 - LESS THAN INDICATED VALUE 34.9 0.4 DRNA 22-HAR-89 12-JAL-89 - 0.04 0.7 0.7 DRNA 22-HAR-89 12-JAL-89 0.4 0.7 DRNA 22-HAR-89 12-JAL-89 0.4 0.7 DRNA 22-HAR-89 14-JAL-89 0.4 0.7 DRNA 22-HAR-89 14-JAL-89 0.4 0.7 DRNA 28-HAR-89 14-DEC-89 0.4 0.4 DRN 09-8EF-89 14-DEC-89 0.4 0.4 DRN 09-8EF-89 14-DEC-89 0.4 0.7 DRN 0.0 0.0 0.7											
1647961	N.	09-SEP-89	14-DEC-89			णक्		. 2. 2 0. 5.0/c. (
1647967	Z E	09-8EP-89	14-DEC-89		7. 14.		90	0			
DRIAM 22-HAR-BY 14-JUL-BY - LESS THAN INDICATED VALUE - 30.0 - 0.3 DRIAM 20-HAR-BY 19-JUN-BY - LESS THAN INDICATED VALUE - 30.0 - 0.3 DRIAM 22-HAR-BY 12-JUL-BY - 0.4 DRIAM 22-HAR-BY 12-JUL-BY - 0.4 DRIAM 22-HAR-BY 14-JUL-BY - 0.4 DRIAM 22-HAR-BY 14-DEC-BY - 0.4 DRIAM 28-HAR-BY 14-DEC-BY - 0.4 DRIAM 28-HAR-BY 14-DEC-BY - 0.4 DRIAM 09-BEP-BY 14-DEC-BY - 0											
DRNA 28-HAR-B9 26-JUN-B9 - LESS THAN INDICATED VALUE 30 0 0 0 4	9										
DRIAM 28-HAR-B9 26-JAN-B9 - LESS THAN INDICATED VALUE 33.1 0.4 DRIAM 27-HAR-B9 14-JAL-B9 - LESS THAN INDICATED VALUE 34.9 0.4 DRIAM 20-HAR-B9 12-JAL-B9 - LESS THAN INDICATED VALUE 74.7 0.7 DRIAM 22-HAR-B9 12-JAL-B9 - LESS THAN INDICATED VALUE 0.4 0.4 DRIAM 22-HAR-B9 12-JAL-B9 - LESS THAN INDICATED VALUE 0.7 0.7 DRIAM 22-HAR-B9 12-JAL-B9 - LESS THAN INDICATED VALUE 0.7 0.7 DRIAM 22-HAR-B9 12-JAL-B9 - LESS THAN INDICATED VALUE 0.7 0.7 DRIAM 22-HAR-B9 14-JAL-B9 - LESS THAN INDICATED VALUE 0.7 0.7 DRIAM 22-HAR-B9 14-DEC-B9 14-DEC-B9 14-DEC-B9 1189-B	9										
DRNA 27-MAR-89 14-JUL-89 R- LESS THAN INDICATED VALUE 30.0 0.4 DRNA 22-MAR-89 19-JUL-89 23.9 0.4 DRNA 22-MAR-89 12-JUL-89 0.7 0.7 DRNA 22-MAR-89 12-JUL-89 0.7 0.7 DRNA 22-MAR-89 12-JUL-89 0.7 0.7 DRNA 22-MAR-89 14-JUL-89 0.7 0.7 DRNA 22-MAR-89 14-JUL-89 0.7 0.7 DRNA 22-MAR-89 14-DEC-89 0.7 0.7 DRN 09-8EF-89 14-DEC-89 0.7 0.7 DRN 0.0 0.0 0.7 0.7 DRN 0.0 0.0 0.7											

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Appendix H

Analytical Results as Submitted to Argonne by Tech/Ops Landauer

ARGDNNE NATIONAL LABORATORY ATTN. TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGDRUE, IL 60439

Tech Ops Reton Detection Products 2 Science Road Gerwood, Illinois 60425-1586 Telephone (708) 735-7000

Acct. No. 0400063

			, ,									-					
NO. OF DAYS	91				96		25	16			16	93			111	•	. 15
STD	7.4	10.8	0. B)	10. B	12. 6	11.0	11.0	9.0	10. 4	10.0	10.3	10.0	9.	11.3	14.9		1 06
Avg Radon Conc pCi/I	3.3				6.0		1.3	2. 1			1.6	1.6			9.0	Θ	PAGE
Exposure pCill days	303 4	126.3	161.7	124. 5	83.5	120.B	120.8	195.3	137.5	154.3	143.1	152. 4	205. 7	129.3	67.8	•	Date Received 26-JAN-90
ients			q ;						Q3	IDED			ED	Q3			Report Date 02-FEB-90
Field Data / Comments		DATES PROVIDED	END DATE PROVIDED	DATES PROVIDED		NO DATES PROVIDED			END DATE PROVIDED	START DATE PROVIDED			END DATE PROVIDED	DATE PROVIDED		0	Process No. A06675
		NO DATE	NO END	NO DATE		NO DATE			NO END	NO STAR	٥ ·		NO END	NO END			O.C. Release DLH
Ending Date	13-DEC-89	NOT GIVEN	NOT GIVEN	'NOT GIVEN	18-DEC-89	NOT GIVEN	14-DEC-89	13-DEC-89	NOT GIVEN	13-DEC-89	13-DEC-89	15-DEC-89	NOT GIVEN	NOT GIVEN	31-DEC-89	0	
Starting	13-5EP-89	NOT GIVEN	13-3EP-89	NOT GIVEN 'NOT GIV	13-SEP-89	NOT GIVEN	13-SEP-89	13-SEP-89	13-SEP-89	NOT GIVEN	13-SEP-89	13-SEP-85	07-SEP-89	07-SEP-07	08-035-11	0	
Detector	DRINA	DRNA	DRNA	DRNA	DRNA	DRNA	DRNA	DRNA	DRNA	DRNA	DRNA	DRNA	DRN	DRN	NOC	0	
Detector	1436013	1436018	1436019	1436029	1436033	1436037	1436041	1436046	1436066	1436069	1436071	1436092	1641172			(E))

Acct. No. 0400063

ARGONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60439

Tech Ops Radon Detection Products 2 Science Road Gerwood, lifnois 60425-1586 Telephone (708) 755-7000

NO. OF DAYS	9.1	91	91							98		96	94			
PCT STD DEV	7.9	7.7	10.2	0.01	17.1	13.9	13. 5	17.7	7.5	16.2	13. 2	12. 5	11.7	11. 4	13.7	
Avg. Radon Conc. pCill	3.1	9.3	1.8							9.0		1.1	1.3			
Exposure pCil days	280 2	298.8	162.8	170.2	47.3	80.8	86. 4	43. 5	315. 6	54.7	64.0	103. 2	119.9	127. 4	82.7	
Freid Data · Comments				NO END DATE PROVIDED		NO START DATE PROVIDED			NO END DATE PROVIDED	NO END DATE PROVIDED						
Ending Date	13-DEC-89	13-DEC-89	13-DEC-89	NOT GIVEN	NOT CIVEN	NOT CIVEN	NOT GIVEN	NOT GIVEN	NOT GIVEN	11-DEC-89	12-5EP-89	16-DEC-89	15-DEC-89	NOT CIVEN	NOT OTVEN	
Starting	13-SEP89	13-SEP-89	13-SEP-89	08-SEP-89	12-SEP-09	12-5EP-89	11-SEP-89	11-SEP-89	12-SEP-89	16-5EP-89	NOT GIVEN	11-SEP-89	12-SEP-89	12-SEP-89	12-SEP-89	•
Detector Type	DRN	DRN	DRN	DRN	Nac	DRN	DRN	NEG	N N N	DRN	DRN	DRN	DRN	DRN	N.H.O	•
Detector	1641503	1641504	1641505	1641506	1641511	1641512	1641517	1641519	1641527	1641537	1641538	1641543	1641544	1641545	1641550	

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PAGE

Report Date 02-FEB-90

Process No. A06675

O.C. Release DLH

Acct. No. 0400063

ARGONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG.ER-203 9700 SOUTH CASS AVENUE ARGONNE: IL 60439

Tech/Ope Lendeuer, Inc.
Redon Detection Products
2 Science Road
Glenwood, Illinois 60425-1586
Telephone (708) 755-7000

Detector	Datector	Starting Date	Ending Date		Field Data / Comments	ments	Exposure pCi/l-days	Avg. Radon Conc. pCiff	STD	NO. OF. DAVS
1641554	N N	14-SEP-89	NOT GIVEN	NO END	DATE PROVIDED	ED	37.9		18.6	
1541556	NAC	12-SEP-89	14-DEC-89				151.6	1.6	10.5	643
1641558	DRN	12-5EP-89	12-DEC-89				90. 1	1.0	13.2	91
1641559	DRN	12-SEP-B9	NOT GIVEN	Ş	END DATE PROVIDED	ED	127. 4		11.4	
1641562	DRN	14~SEP-89	14-DEC-89				190.7	2. 1	9.5	91
1642319	DRN	68-435-60	NOT GIVEN		NO END DATE PROVIDED	ED	88.3		13.4	
1642325	DRN	09-SEP-89	08-DEC-89				106. 9	2.2	12.3	06
1642327	DRN	09-SEP-89	NOT GIVEN	Ş	END DATE PROVIDED	ξD	73.4		14. 4	
1642329	DRN N	09-SEP-89	NOT GIVEN	NO END DATE	NATE PROVIDED	ED	82.7		13.7	
1642332	DRN	10-SEP-89	NOT GIVEN	NO END D	END DATE PROVIDED	ED	140.4		10.9	
1642335	DRN	09-SEP-89	21-NOV-89				51.0	0.7	16.7	73
1642338	DRN	09-SEP-89	28-DEC-89				58.4	0.0	15.8	110
1642340	DRN	09-SEP-89	NOT GIVEN	NO END D	DATE PROVIDED	ED	4.46		12.7	
1643069	DRN	09~SEP-89	NOT GIVEN	NO END D	DATE PROVIDED	ED	97.6		12.8	
1643073	DRN	09-SEP-89	NOT GIVEN	NO END D	DATE PROVIDED	ED	78.9		14.0	
Θ	0	0	©		0		•	0		•
				O.C. Refesse DLH	Process No.	Report Date 02-FEB-90	Date Received 26-JAN-90	PAGE	3 05	13

Acct. No. 0400063

ARGDHME NATIDNAL LABGRATORY ATTN. TINA BECKER, BLDG ER-203 9700 SDUTH CASS AVENUE ARGDNNE, IL 60439

Tech/Ops Landauer, Inc.
Radon Detection Products
2 Science Road
Gerwood, Minois 60425-1586
Telephone (708) 755-7000

NO. OF DAYS		86			683	90	40	36	06	90		68	06		90	
STD	11.8	14.9	13.7	8 .2	7.7	11.3	6.9	9. 80	6. 1	6.9	6 . 4	7.1	6 0	0.0	4.6	
Avg. Radon Conc. pCi/I		0.7		•	₹ ĕ	1.5	4. 1	2. 1	₹	4.		•	(i		0.6	6
Erposure pC///-days	118.1	67.8	82.7	259.7	300.7	131.1	373. 4	190.7	488.9	375. 2	442.3	352. 9	248. 5	215.0	854. 1	(
Field Data / Comments	NO END DATE PROVIDED		NO END DATE PROVIDED	NO END DATE PROVIDED							NO END DATE PROVIDED			NO END DATE PROVIDED		•
Ending	NOT GIVEN	17-DEC-89	NOT GIVEN	NOT GIVEN	13-DEC-89	13-DEC-89	13-DEC-89	14-DEC-89	13-DEC-89	13-DEC-89	NOT GIVEN	13-DEC-89	13-DEC-89	NOT GIVEN	13-DEC89	(
Starting	08-5EP-89	10-SEP-89	08-SEP-89	08-SEP-89	15-SEP-89	14-SEP-89	14-SEP-89	14-SEP-89	14-SEP-89	14-SEP-89	14-SEP-89	15-SEP-89	14-SEP-89	14-3EP-89	14-SEP-89	
Detector Type	DRN	ORN	DRN	DRN	DRN	DRN	DRN	DRN	DRN	DRN	DRN	N N	DRN	DRN	DRN	7
Detector	1643076	1643079	1643088	1643098	1643102	1643103	1643105	1643106	1643107	1643108	1643109	1643112	1643113	1643114	1643115	٦.

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Date Received 26-JAN-90

Report Date 02-FEB-90

Process No. A06675

O.C. Release DLH

Acct. No. 0400063

ARGORNE NATIONAL LABGRATORY ATTN. TINA BECKER, BLDG ER-203 9700 SOUTH GASS AVENUS ARGORNE, IL 60439

Tech/Ope Lendauer, Inc.
Radon Detection Products
2 Science Road
Glenwood, Illinois 60/425-1586
Telephone (708) 755-7000

STD NO. OF DEV DAYS	7.1 89	6.9 89	10.4 92	9.1 89	7.0 89	10.0 89	. 1		12. 3 B9	9.4	5.9 89	6.3 90	7.4 91	4 . 0	6.9 91	9.9	•	5 OF 15	
Avg Radon Conc. pCill	3.9	4.	1.7	Э. О	4. 1	6			2.2	n ni	es es	o si	e ei		7		Θ	PACE	
Exposure pCi/l-days	351.0	373.4	157.2	265.3	364.0	1721		185. 2	106. 9	194.5	520. 6	451.6	323.0	1128.0	375.2	174.0	•	Date Received 26-JAN-90	
ients							٠.	CD.										Report Date 02-FEB-90	
Field Date : Comments								DATE PROVIDED						DATES PROVIDED		S PROVIDED		Process No. A06675	
·								NO END						ş		NO DATES		O.C. Release DLH	
Ending Date	13-DEC-89	13-DEC-89	15-DFC-89	00-036-03	0-230-01	13-0£0-81	13-DEC-89	NOT GIVEN	13-DEC-89	13-DEC-89	13-DEC-89	13-DEC-89	13-DEC-89	NOT GIVEN	17-DEC-89	NOT GIVEN	0		
Starting Date	15-SEP-89	15-SEP-89	00-010-64			15-SEP-89	15-SEP-99	14-SEP-89	15-SEP-89	14-SEP-89	15-SEP-89	14-SEP-83	13-SEP-89	NOT GIVEN	17-SEP-69	SECTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE P	2015 ON)	
Detector	Nag	Nac		2 3	N N	Z Z	DRN	DRN	DRN	DRN	787	700	D. N.	2	N N		₹ €)	
Detector Number	711671			1643120	1643121	1643123	1643124	1643126	1643132	1643133	463644		1643188	7016771	1643208		1643210)	

Acct. No. 0400063

ARGONHE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60437



Detector Number	Defector	Starting Date	Ending Date	ū	Field Data / Comments	\$	Exposure pCili days	Avg. Radon Conc. pCill	STD DEV	NO. OF DAYS	
1643211	DRN	12~SEP~69	14-DEC-89				282. 0	e,	0 7.9	643	
1643213	051	12SEP89	10-DEC-89				382. 7	₹	9.6	68	
1643240	DRN	11-SEP-89	19-DEC-89			-	75. 2	6	14.3	66	
1643241	DRN	68-d35-11	11-DEC-89				175.8		6.6	91	
1643413	DRN	14-SEP-89	NOT GIVEN		ND END DATE PROVIDED	•	330. 5		7.3		
1643416	DRN N	11-0CT-89	15-DEC-89		•:		1079. 6	16. 6	4.1	92	
1643420	DRN	15-SEP-89	15-DEC-89			•	80.8	°.	9 13.9	41	
1643422	DRN	14~5EP-89	12-DEC-89	*	THAN INDIC	- LESS THAN INDICATED VALUE	* 30.0	•	.	69	
1643439	DRN	14-SEP-89	14-DEC-89				384. 5	•	6.8	91	
1643444	DRN	20-0CT-89	21-DEC-89				90. 1	-	5 13.2	62	
1643445	DRN	14-SEP-89	14-DEC-87				269. 0	ei ei	68. 1	41	
1643450	DRN	14-SEP-89	24-DEC-89				95. 7	ó	9 12. 9	101	
1643452	DRN	14-SEP-89	NOT GIVEN	NO END DATE	rE PROVIDED	Ð	151.6		10.5		
1643640	SRN	11-SEP-89	01-DEC-89				43. 5	· ·	5 17.7	18	
1643644	DRN	09-SEP-89	NOT OTVEN	NO END DATE	rE PROVIDED	۵	140. 4		10.9		
Θ	စ	6	0		©		•	Θ		•	
				O.C. Release DLH	Process No. A06675	Report Date 02-FEB-90	Date Received 26-JAN-90	PAGE	ie 6 OF	13	

Acct. No. 0400063

ARGONNE NATIONAL LABORATORY ATTN. TINA BECKER, BLDG ER-203-9700 SCUTH CASS AVENUE ARGONNE: IL 60439

Tech/Ope Landeuer, Inc.
Redon Detection Products
2 Science Road
Glerwood, Illnois 60425-1586
Telephone (708) 755-7000

7		-	45	91	06	<u> </u>	43	•		•0				-	-	•	
	76		Ď.	٥	Ŏ	91	Ö.	436	91	96	9	9.1	91	91	16		5
DEV	16. 4	12. 2	7.4	7. 4	9. 1	in in	8 0	7.6	10.0	7.2	7.3	7.7	B.	9 . 9	4.7		7 06
Conc. pCi/I	0.5		E	3.6	2.3	6.6	4	₹ .0		e.	6		4	£.3	9.2	Θ	PAGE
pCi/I days	52.9	108.8	321.2	326.8	211.2	598.8	220.6	183. 3	172.1	341.7	313.7	298.8	216.8	368.3	833. 6	•	Date Received 26-JAN-90
nents		ED															Report Date 02-FEB-90
rien Data / Comments		END DATE PROVIDED										,				•	Process No. A06675
		ND END															O.C. Release DLH
Ending Date	22-DEC-89	NOT GIVEN	13-DEC-89	13-DEC-89	13-DEC-89	13-DEC-89	15-DEC-89	13-DEC-89	13-DEC-89	13-DEC-89	12-DEC-89	13-DEC-89	13-DEC-89	13-DEC-89	13-DEC-89	0	
Starting	14-SEP-89	12-SEP-83	12-SEP-89	13-5EP-89	14-SEP-89	13-SEP-89	13SEP89	13-SEP-88	13-5EP-89	08-SEP-89	13-SEP-89	13-SEP-89	13-SEP-89	13-SEP-89	13-SEP-89	0	
Detector	DRN	DKN	DRN	DRN	DRN	D.R.N	N	DRN	DRN	D.P.N	DRN	DRN	DRN	DRN	DRN	0	
Detector	1643650	1643681	1643988	1643989	1643990	1643995	1643996	1643998	1644001	1644004	1644006	1644022	1644023	1644026	1644029	Θ	

Acct. No. 0400063

ARGONNE NATIONAL LABORATORY ATTN. TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60437

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Radon Detaction Products
2 Science Road
Glerwood, Minois 60425-1586
Telephone (708) 755-7000

OF 15	60	PAGE	Date Received 26-JAN-90	Report Date 02-FEB-90	Process No. A06675	O.C. Release DL.H	•		• . •
		0	(C. C)		©		Θ	©	7
1119	20.0	0.3	30. 3		;		02-JAN-90	05-SEP-89	PRN
91	14.0	0.9	78.9				07-DEC-89	07-SEP-89	DRN
16	7.4	3.6	324.9				12-DEC-89	12-SEP-89	DRN
16 91	19. 6	4.0	32. 4				11-DEC-89	11-SEP-89	DRN
92	13.9	0.0	80.8			•	12-DEC-89	11-SEP89	DRN
•	16. 9		49.1	TDED	NO START DATE PROVIDED		13-DEC-89	NOT GIVEN	DRN
91	16.0	9.0	36. 6				11-DEC-89	11-SEP-89	DRN
91	20.0	o. 3	30.5				11-DEC-89	11-5EP-89	NRO
26 1	=	1.9	134.8				12-DEC-89	11-SEP-89	DRN
24	16.		54.7	-	S PROVIDED	NO DATES	NOT GIVEN	NOT GIVEN	DRN
1 91	13.	1.0	92.0				11-DEC-89	11-SEP-89	DRN
3 92	10.	1.7	159.1				07-DEC-89	06-SEP-89	DRN
0	13.0		93.9	ED	END DATE PROVIDED	2	NOT GIVEN	06-SEP-89	DRN
5 89	7.	E)	311.9				13-DEC-89	15-SEP-89	DRN
0 87	14.0	0.9	78.9				05-JAN-90	07-0CT-89	Nad
D NO. OF	STD DEV	Avg. Radon Conc. pCiff	Exposure pCi/l days	ments	Field Data / Comments		Ending Date	Starting	Type

ARCONNE MATIONAL LABORATORY ATTN TINA BECKER, BLEG ER-203 9700 SOUTH CASS AVENUE ARCONNE, IL 60439

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Glenwood, Illnois 60425-1586
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	NAVA.		
PCT	ה ה ה) DE	000
	Avg. Radon		
	Exposure	DCM: 0443	
	Field Data / Comments		
	Fodino	Date	
	Control	Date	
		Type	
		Number	

Acct. No. 0400063

Detector	Detector	Starting	Ending Date	Pied	Field Data / Comments	2	Exposure pCi/Ldays	Avg. Radon Conc. pCift	PCT STD DEV	NO. OF DAYS	
1645107	ORN	13-569-89	NOT GIVEN	NO END DATE	END DATE PROVIDED		9 26		12.8		
1645128	URN N	NUT GIVEN	05-DEC-89	* - LESS TH	THAN INDICATED VALUE DATE PROVIDED	TED VALUE ED	* 30.0				
	į	0	04-DEC . 89				60.3	0.7	15.6	16	
1645130	N N	03-367-67					37.9	0.4	18. 6	16	
1645131	DRN N	05-SEP-B9	05-DEC-89				707	0.0	16.9	91	
1645132	DRN	05-SEP-89	05~DEC-89		•		•			5	
1645135	DRN	05-SEP-89	03-DEC-89				62.2	Ö		:	
1645138	DRN	01-SEP-89	NOT GIVEN	NO END DATE	PROVIDED		41.7	•	18.0		
041544	DRN	05-SEP-89	NOT GIVEN	NO END DATE	PROVIDED		77.1		14.1		
		00-010	04-DEC-89				B4. 5	6.0	13.6	91	
1645142	2				•		32. 9	9.0	16.4	45	
1645143	DRN	05-SEP-89	06-DEC-89				į	•	11.6	6	
1645423	DRN	12-SEP-89	12-DEC-89	-			121.8				-
1645430	DR.N	12-SEP-89	22-DEC-89				144.2	+ . +	10.8	101	
1645443	D. N	NOT GIVEN	NOT GIVEN	+ - LESB	THAN INDICA PROVIDED	THAN INDICATED VALUE PROVIDED	* 30.0				
					E PROVIDED	•	32.4		19. 6		
1645447	2 G	06-9EP-89	NOT GIVEN	NO END	•		•	Θ		•	
)))		O.C. Release	Process No. A06675	Report Date 02-FEB-90	Date Received 26-JAN-90	PACE	9 OF	. 13	

Acct. No. 0400063

ARGONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60439



Detector	Detector	Starting	Ending Date		Field Data / Comments	ints	Exposure pCill days	Avg Radon Conc pCill	STD DEV	NO. OF DAYS	-
1645458	DRN	06-5EP-B9	NOT GIVEN	NO END DA	END DATE PROVIDED	a	75. 2		14.3		
1645459	DRN	06-SEP-89	NOT GIVEN	* - LESS NO END DA	* - LESS THAN INDICATED VALUE NO END DATE PROVIDED	ATED VALUE D	30.0				
1645466	DRN	07~SEP89	08-DEC-89				190. 7	5.	9. S	26	
1645469	DRN	07-SEP-89	12-DEC-89				125.9	1.3	11.1	96	
1645471	DRN	08-SEP-89	NOT GIVEN	NO END DA	END DATE PROVIDED	Q	34. 2		19.2		
1645474	DRN	07-SEP-89	-04-0EC-89				118.1	£.3	11.8	40	,
1645481	DRN	04-SEP-89	NOT GIVEN	NO END DA	END DATE PROVIDED	٥	108.8		12.2		
1645583	DRN	NOT GIVEN	NOT GIVEN	* - LESS NO DATES	* - LESS THAN INDICATED VALUE NO DATES PROVIDED	ATED VALUE	30.0				
1645584	DRN	NOT GIVEN	NOT GIVEN		NO DATES PROVIDED		30.3		80.0		
1645597	DR.	NOT GIVEN	NOT CIVEN	+ - LESS NO DATES		THAN INDICATED VALUE PROVIDED	30.0				
1643639	D N	NOT GIVEN	NOT GIVEN	+ - LESS NO DATES		THAN INDICATED VALUE PROVIDED	* 30.0				
1645757	DRN	11-SEP-89	14-DEC-89				105.0	1.1	12. 4	46	
1649769	N N	10-SEP-89	10-DEC-89				43.5	5 0.5	17.7	16	
Θ	0	0	0		©		•	Θ		⊚	
		·		O.C. Release DL.H	Process No. A06675	Report Date 02-FEB-90	Date Received 26-JAN-90	PAGE	10 OF	15	

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ARGORNÉ NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGORNE, IL 60459



Number	Detector Type	Starting	Ending	Field Data · Comments	Exposure pCilidays	Avg. Radon Conc. pCi/I	STD DEV	NO. OF DAYS
1645770	DEN	NOT GIVEN	NOT GIVEN	NO DATES PROVIDED	259.7		E9 C1	
1645778	DRN	07-SEP-89	NOT GIVEN	NO END DATE PROVIDED	215.0		9.0	
		07-CED-89	11-DEC-89		170.2	1.8	10.0	66
1645/65	_	68-334-01. 66-435-00	68-JJU-01.		37.9	♦ .0	18. 6	43
1645857		08-351-07			30.3	0.0	20.0	91
1645865	D S N	08-35-80	08-DEC-89			,		Š
1645867	DRN	08-SEP-89	16-DEC-89		97.6	0	12. B	;
1445682	DRN	08-SEP-89	12-DEC-89		110. 6	1.2	12. 1	e.
0000077		08-SEP-89	08-DEC-89		86. 4	9.0	13. 5	91
		00-020-04	MOT CTUFN	NO END DATE PROVIDED	95.7		12. 9	
1645904	2 2	130-61			. 080	8 71	4	65
1646027	URN	11-0cT-89	13-DEC-89			i	:	1 1
1646039	200	11-0CT-89	15-DEC-89		1051. 6	16.2	4. U	6
1646428	N	NOT GIVEN	NOT GIVEN	NO DATES PROVIDED	63. 9		12.1	
1646431		10-SEP-89	NOT GIVEN	NO END DATE PROVIDED	75.2		14.3	
1646434		10-SEP-89	NOT GIVEN	NO END DATE PROVIDED	43. 5		17.7	
		00000	NAVIO TON BOLDS	NO END DATE PROVIDED	45.4		17.4	
1646443	940	10-36-7-37	6		•	Θ		⊚

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O.C. Release DLH

ARGONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60439

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Acct. No. 0400063

Acct. No. 0400063

ARGUNNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SCUTH CASS AVENUE ARGUNHE, IL 60439



DRN 13-SEP-89 DRN 14-SEP-89 DRN 13-SEP-89 DRN 14-SEP-89	•	NO END DATE PROVIDED	106.9		. !	DAYS
	89 13-DEC-89 89 13-DEC-89 89 NOT GIVEN 88 13-DEC-89 89 13-DEC-89			1.2	12.3	91
	89 13-DEC-89 89 'NOT GIVEN 88 13-DEC-89		138.6	1.5	11.0	42
	89 'NOT GIVEN 88 13-DEC-89		278.3		69	91
			151.6		10. 5	
	13-DEC-		224. 3	o.	69	455
DRN 14-SEP-89	_		390.1	4.3	9 .9	06
DRN 13-DEC-89	39 13-DEC-89		339.8	•	7.2	
DRN 14-SEP-89	39 13-DEC-89		421. B	4.7	6. 3	0
DRN 14-SEP-89	NOT GIVEN	NO END DATE PROVIDED	198.2		6	
DRN 14-5EP-89	39 13-DEC-89		326. 8	9	7.4	90
DRN 14-SEP-89	99 13-DEC-89		324. 9	3.6	7.4	90
DRN 08-5EP-89	14-DEC-89		194. 5	9.0	4.	44
DRN 14-SEP-89	13-DEC-89		216.8	Qi	60	06
DRN 13-SEP-89	13-DEC-89		218.7	d d	6.	91

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ARGUNNE NATIONAL LABORATORY ATTN. TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60439

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12 DRN HOT GIVEN NOT B DRN NOT GIVEN NOT B DRN NOT GIVEN NOT B DRN OB-SEP-89 NOT B DRN NOT GIVEN	Detector	Detector	Starting	Ending		Field Data : Comments	s)	Exposure pCi/I-days	Avg. Radon Conc. pCill	STD N DEV D	NO. OF DAVS	
DRN HOT GIVEN NOT	aper	Abe			- 1							
DRN IDT CIVEN NOT	+-	DRN	NOT GIVEN		* - LESS NO DATES	THAN INDICA	ובח אתרטב					
DRN 17SEP-89 NOT CIVEN NOT CIVEN CIVEN CIVEN CIVEN NOT CIVEN				NOT OF URN	NO DATES	PROVIDED		30.5		20.0		
DRN 12-SEP-89 NOT GIVEN NO END DATE PROVIDED 121.8 11.6.0 39 DRN 08-SEP-89 17-OCT-89 NOT GIVEN NO END DATE PROVIDED 65.9 11.6.0 11.6		220	NOI GIVEN			1000		151.6		10.5		
DRN OB-SEP-89 17-DCT-89 II.6 DRN OB-SEP-89 NOT GIVEN NO EGNED 65.9 11.6 DRN NOT GIVEN NOT GIVEN NO BARR PROVIDED 99.4 12.7 DRN NOT GIVEN NOT GIVEN NO BTART DATE PROVIDED 99.4 12.7 DRN 10-SEP-89 NOT GIVEN NO EGNEC-89 10-DEC-89 16.7 DRN 11-SEP-89 13-DEC-89 13-DEC-89 13-DEC-89 13-DEC-89 DRN 15-SEP-89 13-DEC-89 13-DEC-89 13-DEC-89 7.1 DRN 15-SEP-89 13-DEC-89 13-DEC-89 7.0 DRN 15-SEP-89 13-DEC-89 3.2 7.8 DRN 15-SEP-89 13-DEC-89 3.2 7.8 8 DRN 15-SEP-89 13-DEC-89 3.2 6.4 3.6 8 DRN 15-SEP-89 13-DEC-89 3-DEC-89 6.4 3.6 8 DRN 15-SEP-89 13-DEC-89 6.4		DRN	12-SEP-89	NOT GIVEN				7 7	5	16.0	39	
DRN OB-SEP-B9 NOT GIVEN NOT GIVEN NO END DATE PROVIDED 65.9 15.1 DRN NOT GIVEN NOT GIVEN NO EART DATE PROVIDED 99.4 12.7 DRN NOT GIVEN NOT GIVEN NO END DATE PROVIDED 51.0 0.6 16.7 91.7 DRN 10-SEP-B9 10-DEC-B9 NOT GIVEN NO END DATE PROVIDED 51.0 0.6 16.7 91.6 DRN 13-SEP-B9 13-DEC-B9 13-DEC-B9 13-DEC-B9 11.7 10.4 91.0 DRN 15-SEP-B9 13-DEC-B9 13-DEC-B9 4.0 7.1 B DRN 15-SEP-B9 13-DEC-B9 3-DEC-B9 4.0 7.1 B DRN 15-SEP-B9 13-DEC-B9 3-DEC-B9 3-DEC-B9 4.0 7.1 B DRN 15-SEP-B9 13-DEC-B9 3-DEC-B9 3-DEC-B9 3-DEC-B9 9-DEC-B9 9-DEC-B9 9-DEC-B9 9-DEC-B9 9-DEC-B9 9-DEC-B9 9-DEC-B9 9-DEC-B9 9-DEC-B9 9-DEC-B		DRN	08-SEP-89	17-0CT-89				3 (4 :		
DRN NOT GIVEN NOT GIVEN NO BTART DATE PROVIDED 55.9 10.7 12.7 DRN O9-5EP-89 NOT GIVEN NO BTART DATE PROVIDED 51.0 0.6 16.7 99.4 12.7 16.7 99.4 12.7 16.7 99.4 12.7 16.7 99.4 12.7 16.7 99.4 12.7 16.7 99.4 16.7 99.4 16.7 99.4 16.7 99.4 16.7 99.4 16.7 99.4 16.7 99.4 16.7 99.4 16.7 99.4 16.7 99.4 16.7 99.4 16.7 99.4 16.7 99.4 16.7 99.4 16.7 99.4 16.7 99.4 16.4 99.4 16.4 99.4 16.4 99.4 16.4 99.4 16.4 99.4 16.4 99.4 16.4 99.4 16.4 99.4 16.4 99.4 16.4 99.4 16.4 99.4 16.4 99.4 16.4 99.4 19.4 99.4 19.4		DRN	08-3EP-89	NOT GIVEN	NO END DA	TE PROVIDEI	•	121.8				
DRN NOT GIVEN 09-DEC-89 NO START DATE PROVIDED 51.0 51.0 16.7 91.0 DRN 10-SEP-89 NOT CIVEN NO END DATE PROVIDED 51.0 0.6 16.7 91.0 DRN 10-SEP-89 10-DEC-89 13-DEC-89 13-DEC-89 13-DEC-89 13-DEC-89 4.0 7.1 8 DRN 15-SEP-89 13-DEC-89 13-DEC-89 13-DEC-89 3.2 7.8 8 DRN 15-SEP-89 13-DEC-89 13-DEC-89 3.2 7.8 8 DRN 15-SEP-89 13-DEC-89 3.0 5.4 5.6 8 DRN 15-SEP-89 13-DEC-89 3.0 6.4 5.6 8 DRN 15-SEP-89 13-DEC-89 3.0 6.4 5.6 8 DRN 15-SEP-89 13-DEC-89 6.4 5.6 8		DRN	NOT GIVEN	NOT OTVEN	NO DATES	PROVIDED		65.9		15.1		
DRN 09-5EP-89 NOT CIVEN NO END DATE PROVIDED 31.0 0.6 16.7 91.0 DRN 10-5EP-89 10-DEC-89 13-DEC-89 13-DEC-89 13-DEC-89 13-DEC-89 13-DEC-89 4.0 7.1 8 DRN 14-5EP-89 13-DEC-89 13-DEC-89 4.0 7.1 8 8 DRN 15-5EP-89 13-DEC-89 13-DEC-89 6.4 5.6 8 9.6 8 DRN 15-5EP-89 13-DEC-89 13-DEC-89 6.4 5.6 8 9.6 8 DRN 15-5EP-89 13-DEC-89 6.4 5.6 8 9.6 8 DRN 15-5EP-89 13-DEC-89 6.4 5.6 8 9.6 8 DRN 15-5EP-89 13-DEC-89 6.4 5.6 8 9.6 8 DRN 15-SEP-89 13-DEC-89 6.4 5.6 8 9.6 8	47482	N N	NDT GIVEN	09-DEC-89	NO START	DATE PROVI	DED .			16.7		
DRN 10-SEP-89 13-DEC-89 13-DEC-89 13-DEC-89 13-DEC-89 13-DEC-89 13-DEC-89 13-DEC-89 13-DEC-89 4.0 7.1 8 DRN 15-SEP-89 13-DEC-89 13-DEC-89 4.0 7.1 8 DRN 15-SEP-89 13-DEC-89 3.2 4.0 7.1 8 DRN 15-SEP-89 13-DEC-89 6.4 5.6 8	47483	DRN	98-98-90	NOT CIVEN		NTE PROVIDEI		0.10	9	16.7	16	
DRN 13-SEP-89 13-DEC-89 7.5 9 DRN 14-SEP-89 13-DEC-89 4.0 7.1 8 DRN 15-SEP-89 13-DEC-89 3.2 7.8 8 DRN 15-SEP-89 13-DEC-89 6.4 5.6 8	47484	DRN	10-SEP-89	10-DEC-89				0.10		4 01	16	
DRN 14-SEP-89 13-DEC-89 4.0 7.1 8 DRN 15-SEP-89 13-DEC-89 6.4 5.6 8 DRN 15-SEP-89 13-DEC-89 6.4 5.6 8 DRN 15-SEP-89 13-DEC-89 6.4 5.6 8 DRN 15-SEP-89 13-DEC-89 6 6 7 8 8 DRN 15-SEP-89 13-DEC-89 6 6 7 9 8	47548	NEG	13-SEP-89	13-DEC-89				155. 5	. e	7.8	06	
DRN 13-5EP-89 13-DEC-89 3.2 7.8 8 DRN 15-5EP-89 13-DEC-89 6.4 5.6 8 DRN 15-5EP-89 13-DEC-89 6.4 5.6 8 ORN 15-5EP-89 13-DEC-89 0.0 0.0 ORN 0.0 0.0 0.0 0.0	47560	DRN	_					217.2	•	7.1	68	
DRN 15-5EP-89 13-DEC-89 6.4 5.6 8 DRN 15-5EP-89 (3-DEC-89) (6-4) (7-4) <t< td=""><td>47582</td><td>NEG</td><td>19-SEP-89</td><td></td><td></td><td></td><td></td><td>336. 7</td><td>i ii</td><td>7.8</td><td>68</td><td></td></t<>	47582	NEG	19-SEP-89					336. 7	i ii	7.8	68	
DRN 15-SEP-89 13-DEC-89 (i) (ii) (iii) (iii) (iiii) (iiii) (iiiiii) (iiiiiiii) (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	47584	DRN	15-SEP-89						7 7	9.6	68	
(3) (4) (5) (5) (5) (5) (5) (5) (5) (5) (5) (5	547586	DRN	15-SEP-89			٠		3/2. /			(- 1
OC. Release Process No. Report Date Date Received PAGE 14 OF DI H A06675 02-FEB-90 26-JAN-90		_ •	6	€		•		•	Θ		⋑	
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Acct. No.

ARCONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SDUTH CASS AVENUE ARGONNE, IL 60439

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Field Data Comments Exposure Avg Radon GTD NO. (106.6 1.2 12.0 91	125.9 1.3 11.1 95	181.9 2.0 9.4 91	1636.5 18.0 3.3 91	108.3 1.4 11.9 78	34.0 0.6 15.B 91	ROVIDED 59.3 15.2	127. 6 11. 0	1119.5 17.2 3.9 65	162.7 1.7 9.9 97	68.0 0.7 14.4 92	1121.3 17.3 3.9 65	1100.3 16.9 4.0 65	1003.6 13.8 4.1 69	220.5 2.0 8.6 112
Field C	-89	66-93	12-DEC-89	12-DEC-89	29-NOV-89	11-DEC-89	NOT GIVEN NO END DATE PROVIDED	NOT GIVEN NO END DATE PROVIDED	13-DEC-89	20-DEC-89	13-DEC-89	15-DEC-89	13-DEC-89	13-DEC-89	06-NAL-40
Ending Date	12-DEC	16-Di	12-1	-21	53	Ξ	2								_
Detector Starting Ending Type Date Date	12-SEP-89 12-DEC-89	12-SEP-89 16-DEC-89	12-SEP-89 12-1	12-SEP-89 12-	12-SEP-89 29-	11-8EP-89 11	11-SEP-89 NO	11-SEP-89	11-0CT-89	14-SEP-89	14-SEP-89 13-DEC-89	11-DCT-89	11-0CT-89	11-0CT-89	14-SEP-89

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Process No. A06685

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ARCONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDC ER-203 9700 SQUTH CASS AVENUE ARGONNE, IL 60439

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Acct. No. 0400063

Detector	Detector Type	Starting	Ending	Freid Data / Comments	Exposure pCi/idays	Avg. Radon Conc. pCi/I	STD DEV	NO. OF DAVS
1643431	DRN	12-SEP-89	NOT GIVEN	NO END DATE PROVIDED	234. \$		8.4	
1643455	DRN	12-SEP-89	NOT GIVEN	NO END DATE PROVIDED	125. 9		11.1	
1643642	DRN	09-SEP-89	NOT OIVEN	NO END DATE PROVIDED	64.9		14.7	
1643643	DRN	09-SEP-89	NOT GIVEN	NO END DATE PROVIDED	62. B		14. 9	
1643646	DRN	09-SEP-89	09-DEC-89		99. 3	0.7	15. 2	91
1643667	DRN	09-BEP-89	NOT GIVEN	NO END DATE PROVIDED	83. 6		13.1	
1643675	NA N	12-8EP-89	13-DEC-89		185. 3	0	, 9. 3	45
1644012	N	09-BEP-89	04-DEC-89		90.8	1.0	12. 8	9
1644016	Nav	05-8EP-89	09-DEC-89		66.3	0.7	14.6	6
1644020	N N	08-9EF-89	08-DEC-89		208. 2	e e	8.8	16
1644210	DRN	06-8EP-89	NOT OIVEN	NO END DATE PROVINED	96. 1		12. 5	
1644212	DRN	NOT OIVEN	07-DEC-89	NO START DATE PROVIDED,	180.2		4.4	
1644214	DRN	68-8Eb-90	11-DEC-89		208. 2	Ci Ci		8
1644217	DRN	09-BEP-89	NOT GIVEN	NO END DATE PROVIDED	260. B		6	
1644219	DRN	11-SEP-89	14-DEC-89		8.69	0.7	14.3	*
Θ	6	e	6	•	0	(

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Report Date 02-FEB-90

Process No. A06685

O.C. Refesse DL.H

Acct. No. 0400063

ARGONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 BOUTH CASS AVENUE ARGONNE, IL 60439

Tech Ops Redon
2 Sois
Loadouck Genw

Tech/Ops Lendauer, Inc.
Radon Detection Products
2 Science Road
Gerwood, Ilinois 60425-1586
Telephone (708) 755-7000

						100		
Detactor	Starting Date	Ending	Field Data / Comments	Exposure pCilidays	Avg Radon Conc. pCi/I	8TD DEV	NO. OF DAYS	
DRN	11-SEP-89	11-DEC-89		8.69	0.8	14.3	16	
DRN	11-SEP-89	11-DEC-89		73.3	0.8	14.0	91	
DRN	11-SEP-89	NOT GIVEN	NO END DATE PROVIDED	45.3		16.9		
DRN	11-SEP-89	10-DEC-89		66.3	0.7	14.6	40	
DRN	10-SEP-89	31-DEC-89		69.8	0.6	14.3	112	
DRN	11-9EP-89	11-DEC-89		80.3	9.0	13.5	91	
NEG	12-BEP-89	12-DEC-89		71.5	9	.14.1	91	
DRN	10-8EP-89	13-DEC-89		45.3	0.0	16.9	4	
DRN	10-SEP-89	NDT GIVEN	NO END DATE PROVIDED	43. 5		17.1		
DRN	12-SEP-89	NOT OTVEN	NO END DATE PROVIDED	183.7		4.		
DRN	NOT OTVEN	NOT OTVEN	NO DATES PROVIDED	62. B		14.9		
DAR.	07-SEP-89	NOT GIVEN	NO END DATE PROVIDED	329. 2		7.1		
DRN	13-8EP-89	13-DEC-89		325.7	9.6	7.2	16	
DRN	09-BEP-89	10-DEC-89		48.9	o	16.7	96	
DRN	05-SEP-89	NOT GIVEN	NO END DATE PROVIDED	57.5		15. 4		
•	0	•	(9)	•	6		•	

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Date Received 26-JAN-90

Report Date 02-FEB-90

Process No. A06685

O.C. Release DLH

Radon Monitoring Report

Acct. No. 0400063

ARGONNE NATIONÁL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 BOUTH CASS AVENUE ARGONNE, IL 60439

Tech Ops Radon Detection Products 2 Science Road Genwood, Minois 60425-1586 Telephone (708) 755 7000

Detector D	Detector Type	Starting	Ending Date	Field Data / Comments	Exposure pCiil days	Avg. Radon Conc. pCiff	STD	NO. OF DAYS
164509B D	DRN	05-SEP-89	06-DEC-89		41.7	0.5	17.4	92
1645105 D	NEG	05-SEP-89	09-DEC-89	* - LESS THAN INDICATED VALUE	* 30.0	* 0.3		95
1645113 D	DRN	03-SEP-89	06-DEC-89		87.3	0.0	13.0	65
1645115 D	DAN N	03-SEP-89	07-DEC-89		82. 1	0	13.4	65
1645116 D	NAO	05-SEP-89	09-DEC-89		8 .69	0.0	14.3	91
1645120 D	DRN	05-SEP-89	NOT OTVEN	NO END DATE PROVIDED	40.0		17.7	
1645121 DI	NEG	05-SEP-89	06-NAL-40		59.3	0.0	16.2	123
1645124 DI	DRN	05~SEP-89	NOT OTVEN	NO END DATE PROVIDED	8.69		14.3	
1645126 DI	DRN	03-SEP-89	NOT GIVEN	NO END DATE PROVIDED	78.5		13.6	
1645134 D	DRN	03-SEP-89	09-DEC-89		71.5	0	14.1	
1645426 DRN		12-8EP-89	12-DEC-89		196.0	ci ci	9. 1	
1645436 DF	DRN	11-0CT-89 15-DEC-89	15-DEC-89		1095.0	16.8	4.0	63
1645437 DI	Neg	11-0CT-89	13-DEC-89	·	1024. 9	15.8	4.1	69
1645445 DF	N N	06-SEP-89	16-DEC-89		48.8	0.5	16. 4	101
1645461 DF	DRN	06-SEP-89	06-DEC-89		43.5	6	17.1	16
	6	6	(

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Glenwood, Illinois 60425-1586
Telephone (708) 755-7000

Defector	Detector	Starting	Ending Date	Field Data / Comments	Exposure pCr/t days	Avg. Radon Conc. pCi/I	STD NO. OF DEV DAYS
1645468	DRN	07-SEP-89	07-DEC-89		152.2	1.7	10.2 91
1645473	DRN	06-SEP-89	NOT GIVEN	NO END DATE PROVIDED	41.7		17.4
1645483	N N	18-0CT-89	18-DEC-89	+ - LESS THAN INDICATED VALUE	* 30.0	* 0	61
1645581	NRO	NOT GIVEN	NOT OIVEN	* - LESS THAN INDICATED VALUE NO DATES PROVIDED	* 30.0		
1645582	S S S	NOT GIVEN	NOT GIVEN	* - LESS THAN INDICATED VALUE NO DATES PROVIDED	• 30.0		
1645592	D N	NOT GIVEN	NOT GIVEN	+ - LESS THAN INDICATED VALUE NO DATES PROVIDED	• 30.0		
1645593	S S	NOT GIVEN	NOT OIVEN	* - LESS THAN INDICATED VALUE NO DATES PROVIDED	90.0		
1645638	NRO	NOT GIVEN	NOT GIVEN	* - LESB THAN INDICATED VALUE NO DATES PROVIDED	* 30.0		
1645641	N N N	NOT GIVEN	NOT OIVEN	+ - LESB THAN INDICATED VALUE NO DATES PROVIDED	• 30.0		
1645758	DRN	11-8EP-89	11-DEC-89	* - LESS THAN INDICATED VALUE	* 30.0	.0	5
1645759	NRO	NOT OIVEN	NOT OTVEN	* - LESS THAN INDICATED VALUE NO DATES PROVIDED	30.0		
Θ	©	€	€	9		6	6

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ARCONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 BOUTH CASS AVENUE ARGONNE, IL 60439

Tech/Ops Redon Detection Products
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Acet. No. 0400063

7	90 6	PAGE	Date Received 26-JAN-90	Report Date 02-FEB-90	Process No.	O.C. Release DLH			
•		Θ	•		©		0	0	
66	11.7	1.2	111.8				17-DEC-89	13-5EP-89	13-6
276	9.9	9 0	162.7				12-DEC-89	11-MAR-89	==
	13.8		26.2	e	DATE PROVIDED	NO END	NOT OTVEN	08-8EP-89	80
	15. 6		35. B	e	DATE PROVIDED	NO END	NOT GIVEN	08-9EP-89	90
;	13.4	8	73.0			•	11-DEC-89	08-8EP-89	ė
: ;		5	7 .08				08-DEC-80	08-SEP-89	8
· č		•	0.1	e,	NO END DATE PROVIDED		NOT OIVEN	11-SEP-89	=
		i	9				04-DCT-89	06-SEP-89	8
Q.									
106	8.6	1.6	166.2				21-DEC-89	04-SEP-89	Ò
	8 0		234. 5	2	NO END DATE PROVIDED		NOT GIVEN	02-6EP-89	0
5	7.6	1.6	285.3				09-DEC-89	09-SEP-89	ŏ
	7.3		311.6		DATES PROVIDED	旲	NOT GIVEN NOT GIVEN	IT OIVEN	ž
	12. 1		103.1	A	END DATE PROVIDED	2	NOT GIVEN	08-SEP-89	Ö
	14.7		64. 5	a	NO END DATE PROVIDED		NOT CIVEN	10-SEP-89	2
16	15. 6	9.0	55.8				11-DEC-89	11-SEP-89	=
NO. OF DAYS	BTD DEV	Avg Radon Conc pCill	Exposure pCi/I days	810	Field Data / Comments		Ending	Starting	
	100								

Acct. No. 0400063

ARGONNE NATIONAL LABORATORY
ATTN: TINA BECKER, BLDG ER-203
9700 SOUTH CASS AVENUE
ARCONNE, IL: 60439

Tech Ops Radon Detection Products
2 Science Read Glerwood, linois 60425-1586
Telephone (708) 755-7000

Type	Starting	Ending	Field Data / Comments	Exposure pCiffdays	Avg Radon Conc pCill	8TD DEV	NO. OF DAYS
DRN	11-0CT-89	15-DEC-89		1079.2	16.6	4.0	65
DRN	12-SEP-89	13-DEC-89		92. 6	1.0	12.7	ç
DRN	11-0CT-89	15-DEC-89		1058.2	16.3	₩.0	63
DRN	12-8EP-89	19-DEC-89		111.8	1.1	11.7	86
DRN	12-SEP-89	12-DEC-89		117.1	1.3	11.5	41
DRN	11-0CT-89	15-DEC-89	•	1038.9	16.0	4.1	. 69
DRN	11-0CT-89	15-DEC-89		1070.5	16. 5	.0	63
DRN	10-8EP-89	09-DEC-89		93.8	•	15.6	9
DRN	10-SEP-89	10-DEC-89	* - LESS THAN INDICATED VALUE	• 30.0	÷ 0.3		16
NEG	08-8EP-89	NOT OTVEN	NO END DATE PROVIDED	78.5		13.6	
DRN	NOT GIVEN	14-DEC-89	NO START DATE PROVIDED	108.3		11.9	
N E	10-8EP-89	16-DEC-89		48.8	0.3	16.4	47
Z	NOT OTVEN	22-DEC-89	NO START DATE PROVIDED	64. 3		14.7	
N W	11-SEP-89	NOT OTVEN	NO END DATE PROVIDED .	89. 1		12. 9	,
DRN	10-SEP-89	NOT GIVEN	NO END DATE PROVIDED	55.8		15.6	

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Toch/Ops Landauer, Inc.
Toch/Ops Landauer, Inc.
2 Science Road
Glenwood, Minois 60425-1586
Telephone (708) 755-7000

Acct. No. 0400063

					•												
NO. OF DAYS	16	66	103	91	83	06	88	84	8	6	6	<u>.</u>		9.8	06	•	=
BTD	13.5	10.2	4.9	12. 6	7.2	7.5	10.6	7.8	9. 4	7. 4	10.3	6	11.1	9	10.1		2
Avg Radon Conc. pCiff	0.0	1.5	9.6	1.0	9	9.3	1.6	3.0	e ci	→ .c	1.7	n n	1. 4	17.4	1.7	0	3040
Exposure pCi/ldays	80.3	152.2	576.3	94.3	325.7	294. 1	139.9	271.3	206. 5	308.1	148.6	227.5	125.9	1655.8	157. 4	•	Date Received
ents						•											Report Dete
Field Data / Comments														-		•	Process No.
																	O.C. Release
Ending Date	08-DEC-89	14-DEC-89	17-DEC-89	68-DEC-86	13-DEC-89	13-DEC-89	12-DEC-89	13-DEC-89	13-DEC-89	13-DEC-89	13-DEC-89	13-DEC-89	13-DEC-89	18-DEC-89	13-5EC-89	Θ	•
Starting	08-5EP-89				19-8EP-89	14-5EP-89	13-8EP-89	19-8EP-84	14-8EP-89	14-8EP-89	13-8EP-89	13-8EP-89	13-8EP-84	14-5EP-89	14-8FP-89	0	
Detector	DRN	DRN				DRN	DRN	DRN	DRN	N N	DRN	DRN	DRN	Z	3	<u> </u>	
Detector Number	1646469					1646983	1646984	1646985									•

Acct. No. 0400063

ARCONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 BOUTH CASB AVENUE ARCONNE, IL 60439

Tech Ops Radon Detection Products
2 Science Road
Glenwood, lifnois 60425-1586
Telephone (708) 755-7000

Field Data / Comments Field Data / Comments Exposure 257. 3 258. 0 27 8. 0 90 194. 2 224. 0 27 8. 3 89 89 89 89 89 89 89 89 89 8	Exposure Aug Radon GTD NO. 257. 3 2. 9 8. 0 90 194. 2 64. 7 9. 1 3 224. 0 2. 5 8. 3 89 437. 8 4. 9 6. 2 90 197. 7 2. 2 90 ICATED VALUE * 30. 0														
Exposure Aug Radon 257.3 2.9 194.2 64.7 238.0 2.7 224.0 2.5 434.3 4.8 437.8 4.9 192.5 2.1 197.7 2.8 197.7 2.8 197.7 2.8 197.7 2.8 197.7 2.8 197.7 2.8 197.7 2.8 197.7 2.8	Freid Data / Comments Esposure Conc. pCiril days Conc. pCi	NO. OF	06	n	68	91	06	06	04	90				8	8
Exposure Avg Ra 257.3 194.2 628.0 224.0 434.3 437.8 197.7 1CATED VALUE * 30.0 1CATED VALUE * 30.0 1CATED VALUE * 30.0	Exposure Exposure Exposure Conc. p	9TD 9TD DEV	0.0	9. 1			6 .	6.	6,	9.				14.1	
ICATED VALUE • ICATED VALUE • ICATED VALUE •	Field Data / Comments Exp	Avg. Radon Conc. pCi/I	2.9	64.7	2.7	S)	₩.		2. 1	Ci Ci				0.0	Si Si
Field Data / Comments LESS THAN INDICATED VALUE ND DATES PROVIDED LUGGE CHIP IN CUP LESS THAN INDICATED VALUE NO DATES PROVIDED LESS THAN INDICATED VALUE NO DATES PROVIDED	DEC-89	Exposure pCi/I-days	257. 3	194.2	238.0	224.0	434.3	437.8	192. 5	197.7	* 30·0	• 30.0	• 30.0	71. 5	222. 3
	SEC OF CONTROL OF CONT	Field Data / Comments									• - LESS THAN INDICATED VALUE NO DATES PROVIDED LOOSE CHIP IN CUP	LE89 DATE8	LESS DATES		
Starting Date 14-SEP-89 14-SEP-89 13-SEP-89 14-SEP-89 14-SEP-89 14-SEP-89 NOT GIVEN NOT GIVEN O9-SEP-89		Defector	DRN	DRN	DRN	DRN	DRN	DRN	DRN	Dan	DRN	N N	D.R.N.	DRN	,
14-SEP-89 14-SEP-89 13-SEP-89 13-SEP-89 14-SEP-89 14-SEP-89 14-SEP-89 14-SEP-89 NOT GIVEN NOT GIVEN NOT GIVEN NOT GIVEN	ò e	Detector	1647005	1647006	1647008	1647009	1647011	1647012	1647014	1647018	1647434	1647454	1647455	1647466	1647585

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ARGONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 BOUTH CASS AVENUE ARGONNE, IL 60439



Acct. No. 0400063

											-						
DAYS	06	66	91		6		16			88	ş	91	91			•	.
STD	6.9	18. 6	17.4	19.2	14.9	13.8	12.1	12.3	8) (1)	4.0	19. 4	9	4.2	9 .	12. 5		13 OF
Avg Radon Conc pCi/I	3.9	4	0		0.7	,	1.1			10.6	• •	2.7	1.1			0	PAGE
Exposure pCIII-days	351.9	34.7	41.7	31.2	62.8	9.4.0	103.1	9.66	243.3	949.6	97. 9	246.8	189. 0	390. \$	96. 1	•	Date Received 26-JAN-90
ments				ED		ED		Q 3	03					æ	0.3		Report Date 02-FEB-90
Field Data / Comments				NO END DATE PROVIDED		DATE PROVIDED		DATE PROVIDED	DATE PROVIDED					END DATE PROVIDED	DATE PROVIDED	©	Process No.
				NO END I		NO END D		NO END D	NO END D		•			NO END D	NO END D		Q.C. Refesse DL.H
Ending Date	14-DEC-89	14-DEC-89	06-DEC-89	NOT CIVEN	12-DEC-89	NOT DIVEN	06-DEC-89	NOT OTVEN	NOT OTVEN	09-DEC-89	07-DEC-89	08-DEC-89	07-DEC-89	NOT GIVEN	NOT OTVEN	⊚	
Starting	15-8EP-89	06-SEP-89	06-SEP-89	06-SEP-89	08-SEP-89	06-8EP-89	04-BEP-89	06-BEP-89	07-SEP-89	12-6EP-89	06-SEP-89	68-439-80	07-SEP-89	07-SEP-89	06-SEP-89	0	
Detector Type	DRN	DRN	DRN	DRN	DRN	DRN	DRN	DRN	DRN	Dan	DRN	DRN	N N	DRN	DRN	0	٠.
Detector	1647587	1648140	1648153	1648165	1648169	1648228	1648229	1648233	1648239	1648242	1648250	1648267	1648270	1648272	1648274	Θ	

Acct. No. 0400063

ARCONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SDUTH CASS AVENUE ARCONNE, IL 60439

Tech/Ops Landauer, Inc. Radon Detection Products	2 Science Road	Glenwood, Illinois 60425-1586	Telephone (708) 755 7000
Tech Ops		Landoner	

NO. OF DAYS		•	:
PCT STD DEV	r ci		
Avg Radon Conc pCirl		0	
Exposure pCill days	85. 6	•	Date Received
nments			Report Date
Field Data - Comments	NO DATES PROVIDED	9	Se Process No
			O.C. Release
Ending Date	NOT GIVEN	0	
Starting Date	OT CENT	0	
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	16482B7	0	

Acct. No. 0400063

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Tech Ops Radon Detection Products 2 Science Road Gerwood, Minois 60425-1586 Telephone (708) 755-7000

									PCT	1	
Detector Number	Detector Type	Starting	Ending		Field Data / Comments	ints	Exposure pC/// days	Avg Radon Conc pCill	STD	NO. OF DAVS	
1641159	DRN	09-85P-89	10-DEC-89				38.2	0	18.0	63	
1641162	Nega	07-SEP-89	23-JAN-99				313.4	ы В	7.3	138	
1641163	URN.	07-SEP-89	NOT GIVEN	NO END DA	END DATE PROVIDED	۵	174.9		9.6		
1641167	Nao	NOT GIVEN 'NOT GIVEN	NOT GIVEN	NO DATES	DATES PROVIDED		264.3		7.9		
1641168	DRN	NOT GIVEN	NOT GIVEN	NO DATES	DATES PROVIDED		418.5		4 .9		-
1641169	DRN	07-SEP-89	NOT GIVEN	NO END DA	END DATE PROVIDED	۵	87.3		13.0		
1641170	N	NOT GIVEN	NOT GIVEN	NO DATES	DATES PROVIDED		116.2		11.9		
1641171	DRN	07-SEP-99	07-DEC-89				134. 6	1.3	10.8	91	
1641173	DRN	07-SEP-89	NOT GIVEN	NO END DA	END DATE PROVIDED	Q	111.8		11.7		
1641175	DRN	07-SEP-89	07-DEC-89				167.9	1.8	6.0	16	
1641176	ORN	NOT GIVEN	07-DEC-89	NO BTART	BTART DATE PROVIDED	DED	199. 5		9.0		
1641179	NEG	NOT GIVEN	NOT GIVEN	NO DATES	PROVIDED		376. 5		6. 7		
781184		07-5EP-39	03-DCT-89	+ - LESS	THAN INDIC	THAN INDICATED VALUE	* 30.0	+ 1.2		56	
1441189		07-5EP89		-	•		75.0	0.0	13.9	16	
			701	NO END DATE	ATE PROVIDED	9	138.1		10.7		
1641191	E 6	(a) 10/- 10/-	-				•	Θ		•	
))) ·		a C. Release DL.H	Process No. A06712	Report Date 06-FEB-90	Date Received 30-JAN-90	PAGE	1 0F	16	

Acct. No. 0400063

ARGONNE NATIONAL LABORATORY ATTH: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 80439

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Redon Detection Products
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Glenwood, Minois 60425-1586
Telephone (708) 755-7000

NO. OF DAYS			104	90	91		34	65	63			86	132	91		•	16	
STD DEV	11.9	11. 4	14.6	7.3	11.3	7.7	12.6	4.0	4	6 .	6 0	11.7	11.3	14.3	12.2		2 OF	
Avg. Radon Conc. pCiff			9.0	න ෆ්	1.3		6.9	17.0	16.3			1.1	0.0	0.8		©	PAGE	
Exposure pCiff-days	108.3	118.9	66.3	311.6	120.6	278.3	94.3	1102.0	1060.0	166. 2	211.7	111.8	122. 4	8.69	101.3	•	Date Received 30-JAN-90	
ents											toen				QI		Report Date 06-FEB-90	
Field Data / Comments	DATES PROVIDED	DATES PROVIDED				NO END DATE PROVIDED				DATES PROVIDED	START DATE PROVIDED				DATE PROVIDED	9	Process No. A06712	
	NO DATE	NO DATE				NO END				NO DATE	NO STAR				NO END		O.C. Release DLH	
Ending Date	NOT GIVEN	NOT GIVEN	18-DEC-89	13-DEC-89	08-DEC-89	NOT GIVEN	23-0CT-89	13-DEC-89	15-DEC-89	NOT GIVEN	07-JAN-90	16-DEC-89	19-JAN-90	09-DEC-89	NOT GIVEN	Θ		
Starting Date	NOT GIVEN	NOT GIVEN	05-SEP-89	14-SEP-89	08-SEP-89	14-SEP-89	14-SEP-39	11-0CT-89	11-0CT-89	NOT GIVEN	NOT GIVEN	09-SEP-89	09-3EP-89	09-5EP-89	68-dur-ep	6		
Detector	DRN	DRN	DRN N	DRN	DRN	DRN	NEG	DRN	DRN	DRN	DRN	DRN	CRN	DRN	200	<u> </u>		
Detector Number	1641192			1641501	1641508	1641565			1642297	1642318						-	·	

ARGONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60439

Tech/Ops Lendeuer, Inc.
Tech Ops Redon Detection Products
2 Science Road
Genwood, Illinois 60425-1586
Telephone (708) 755-7000

Acct. No. 0400063

											-						\neg		
	NO. OF DAYS		120		č	9	66	91	114		100			109			66	•	16
PCT	STD	14.4	11.6	10.1	;	16.0	14.4	B 0	89	7.2	14. 4	3.7	10.6	6. G	11. 3	9.3	11.5		3 05
	Avg. Radon Conc. pCiff		6.0			n O	0.7	6. 8.	6.1		0.7			1.7			1.2	0	PAGE
	Exposure pCi/I-days	0 89	113.6	157 4		92.3 95.3	0.89	255. 6	211.7	341.7	0 .89	1252.7	139.9	185. 5	115.4	187.2	117.1	•	Date Received 30-JAN-90
	ents	Q										Q:			. 03	1060			Report Date 06-FEB-90
	Freid Data / Comments	DATE PROVIDED			NO DATES PROVIDED					NO DATER PROVIDED		NO END DATE PROVIDED	NO DATES PROVIDED		END DATE PROVIDED	START DATE PROVIDED		0	Process No. A06712
		NO END D			NO DATES			•		NO DATES		NO END I	NO DATES		NO END	NO STAR			Q.C. Refease DLH
	Ending	NOT GIVEN	OZ-MAI -50		NOT GIVEN	.14-DEC-89	17-DEC-89	08-DEC-89	30-DEC-89	NOT GIVEN	10-DEC-89	NOT GIVEN	NOT GIVEN	21-DEC-89	10-DEC-89	13-DEC-89	21-0FC-R9	€	, •
	Starting Date	09-4EP-60		04-361-84	NOT GIVEN	09-SEP-89	19-5EP-89	08-SEP-89	07-SEP-89	NOT GIVEN	01-SEP-89	12-3EP89	NOT GIVEN	13-5EP-89	NOT GIVEN	NOT GIVEN	99-435-66	E)
	Detector Type	MON		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NRO	DRN	DRN	DRN	DRN	C.R.	DRN	DRN	DRN	DRN	S	200	9	6)
	Detector	7000475	0.00	1642351	1643071	1643074	1643075	1643077	1643080	1643083	1443083	1643086	1643087	1643089	1643092	1643097		915)

<u>.</u>(

Acct. No. 0400063

ARGONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60-139

Tech Ops Radon Detection Products 2 Science Road Glerwood, lifnois 60425-1586 Telephone (708) 755.7000

NO. OF DAYS	68	68	68	68	68	68	683	41	90	90	9	94	16		,
PCT STD DEV	7.6	7.3	7.4	5.6	9.0	12.7	. O.	ю Ю	7.4	7.2	7.8	11.9	11.0	80 4	11.5
Avg. Radon Conc. pCi/I	3.2	ю 6	ę.	0.9	n ni	1.0	4.9	9	ස ස	3.6	3.0	1. 2	+ :		
Exposure pCril days	285.3	311.6	306. 4	534. 2	201.2	92. 6	166. 2	236.3	301. 1	323. 9	269. 6	108.3	127.6	234. 5	115.4
Freid Data / Comments														NO END DATE PROVIDED	NO END DATE PROVIDED
Ending Date	13-DEC-89	14-DEC-89	13-DEC-89	13-DEC-89	13-DEC-89	10-DEC-89	12-DEC-89	NOT GIVEN	NOT GIVEN						
Starting Date	15-85P-69	19-SEP-89	15-5EP-89	15-9EP-89	15-5EP-69	15-SEP-89	13-5EP-8¢	14-SEP-89	14-SEP89	14-5EP-89	14-SEP89	07-5EP-89	12-5EP-89	12-5EP-89	12-5EP69
Detector	DRN	DRN	DRN	N N N	DRN	Nao	DRN	D.R.N	DRN	NRO	DRN	DRN	NRO	DRN	DRN
Detector Number	1643104	1643110	1643111	1643117	1643122	1643125	1643127	1643128	1643129	1643130	1643131	1643184	1643185	1643187	1643190

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O.C. Release DLH

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Radon Monitoring Report

APGUNNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-2 9700 SOUTH CASS AVENUE ARGONNE, IL 60439

2 Science Road Clenwood, Illinois 60425-1586 Telephone (708) 755-7000	PCT STD NO. OF DEV DAYS	12.0 106	9.5 91	13. 7	10.8	14.3 92	4.3	8.4 92	3.3 80	10.1	8.2 91	6.8 113	13. 5	6.6	11.3	9.9	•
Tech Op:	Avg Radon Conc pCill	1.0	2.0			9.0		, Ci	20. 2		2.7	9.3					Θ
	Exposure pCill days	104.8	178.4	76. B	134.6	8.69	185. 5	232.8	1612.0	157. 4	243.3	367.7	80.3	164. 4	122. 4	164. 4	•
Acct. No. 0400063	Field Data Comments			NO END DATE PROVIDED	NO DATES PROVIDED		NO DATES PROVIDED			NO DATES PROVIDED			NO END DATE PROVIDED	NO DATES PROVIDED	NO END DATE PROVIDED	NO START DATE PROVIDED	0
ER-203	Ending Date	27-DEC-89	13-DEC-89	NOT GIVEN	'NOT CIVEN	13-DEC-89	NOT GIVEN	13-DEC-89	01-DEC-89	NOT GIVEN	12-DEC-89	09-NAU-E0	NOT GIVEN	NOT GIVEN	NOT GIVEN	13-DEC-99	• [•
APGONNE NATIONAL LABDRATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60439	Starting	12-5EP-89	13-5EP-89	12-3EP-89	NOT GIVEN	12-SEP-89	NOT GIVEN	12-5EP-89	12-SEP-89	NOT GIVEN	12-5EP-89	12-55-99	12-SEP-89	NOT GIVEN	12-SEP-89	NOT STVEN	©
E NATE	Detector Type	CRN	URN N	DRN	DRN	DRN	DRN	DRN	DRN	DRN	D.R.N.	DRN	DRN	DRN	DPN	CRN	0
APGONNE NAT ATTN: TINA 9700 SOUTH ARGONNE, TL	Detector	1643192	1643193	1643194	1643201	1643202	1643204	1643206	1643214	1643215	1643216	1643218	1643219	1643220	1643222	1643225	Θ

ARGONNE NATIONAL LABÓRAT ATTN: TINA BECKER, BLD9 9700 SQUTH CASS AVENUE ARGÜNNE, IL 60439

Radon Detection Products 2 Science Road 2 Science Road 2 Science Road	Telephone (708) 755-7000	
Techo	Acct. No. 0400063	
ATORY 3 ER-203		

NO. OF DAYS			91	44		44	66	91	99		16	91			127	•	16
PCT STD DEV	9.6	8.8	7.7	7.6	14. 6	10.3	12.1		₹	14.0	6	12.0	16. 4	15.8	12.0		6 OF
Avg Radon Conc pGill			3.1	3.0		1.6	1.0	÷	14.9		9.0				0.8	©	PAGE
Exposure pCirt-days	167.9	211.7	281.8	288.9	66.3	148.6	103.1	* 30.0	984. 6	73.3	183.7	112.5	48.8	54.0	104.8	•	Date Received 30-JAN-90
rents	Q.				6	•		SATED VALUE		0:			e .	e :			Report Date 06-FEB-90
Field Data / Comments	END DATE PROVIDED	NO DATES PROVIDED			NO END DATE PROVIDED			LESS THAN INDICATED VALUE		NO END DATE PROVIDED			DATE PROVIDED	DATE PROVIDED		©	Process No. A06712
	NO END	NO DATE			NO END			* - LES		NO END			NO END	NO END			O.C. Release DLH
Ending Date	NOT GIVEN	NOT GIVEN	12-DEC-89	18-DEC-89	NOT GIVEN	15-DEC-89	19-DEC-89	14-DEC-89	16-DEC-89	NDT GIVEN	11-DEC-89	09-DEC-89	NOT GIVEN	NOT GIVEN	14-JAN-90	0	
Starting Date	12-SEP-89	NOT GIVEN	12-SEP-89	12-5EP-89	11-SEP-89	12-SEP-89	11-5EP-89	14-SEP-89 14-DEC-89	11-CCT-89	11-SEP-99	11-SEP-89	09-SEP-89	09-SEP-89	11-5EP-89	09-SEP89	©	
Detector Type	DRN	DRN	DRN	DRN	DRN	DRN	NAG	CRN	NEG	DRN	NAC	DRN	DRN	DRN	DRN	7	
Detector	1643227	1643228	1643230	1643231	1643239	1643243	1643244	1643424	1643425	1643639	1643641	1643652	1643653	1643655	1643658	7	

Acct. No. 0400063

ARGONNE NATIONAL LABGRATORY ATTN: TIMA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGORNE, 1L 60438

Tech Ops Radon Detection Products 2 Science Road Gerwood, Illinois 60425-1586 Telephone (708) 755 7000

Detector Number	Detector	Starting	Ending Date		Field Data / Comments	ents	Exposure pC://-days	Avg Radon Conc. pCi/I	STD	NO. OF DAYS	
1643664	DRN	09-3EP-69	14-DEC-69				71.5	0.7	14.1	96	
1643665	DRN	68-435-60	NOT GIVEN	NO END DA	NO END DATE PROVIDED	9	104.8		12.0		
1643669	ORN N	25-0CT-89	25-JAN-90				113.6	1.2	11. 6	92	
1643673	DRN	09-SEP-89	14-JAN-90				64.5	6°.	14. 7	127	<u> </u>
1643678	DRN	12-SEP-89	19-JAN-96				231.0	1.8	4.6	129	
1643679	DRN	11-SEP-89	11-DEC-89				276. 6	3.0	7.7	91	
1643680	DEN	12-SEP-89	19-JAN-90				110.1	6.0	11.8	129	
1643688	DRN	12-SEP-89	NOT GIVEN	NO END DATE PROV END DATE 9-19-90	NO END DATE PROVIDED END DATE 9-19-90	e	215. 2		19.7		
1643997	DRN	07-SEP-89	07-DEC-89				514.9	5.7	5.7	91	
1644002	DRN	07-SEP89	07-DEC89				280. 1	3.5	7.7	91	
1644003	DRN	07-SEP-89	08-JAN-90				632. 9	10.	21	123	
1644005	DRN	68-43S-80	NOT GIVEN	NO END DA	DATE PROVIDED	6	148.6		10.3		
1644009	N. N.	14-SEP-89	NOT GIVEN	NO END DA	DATE PROVIDED	Q :	103.1		12. 1		
1644011	ORN	06-SEP-09	NOT SIVEN	NO END DA	DATE PROVIDED	Q.	80.3		13. 5		
Θ	ၜ	Θ	0		0		0	0		•	
	·			O.C. Release DLH	Process No. A06712	Report Date 06-FEB-90	Date Received 30-JAN-90	PACE	7 OF	16	

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Radon Monitoring Report

Acct. No. 0400063

ARGONNE NATIONAL LABORATORY ATTN, TINA BECKER, BLDG ER-203 9700 SOUTH GASS AVENUE ARGONNE, IL 604.39

Tech/Ops Lendauer, Inc.
Redon Detection Products
2 Science Road
Gerwood, Minois 60425-1586
Telephone [708] 755-7000

Defector Starting Type Date	Ending Date	Field Data / Comments	Exposure pCiffdays	Avg. Radon Conc. pCi/I	STD DEV	NO. OF DAYS	
05-3EP-89	89 NOT GIVEN	* - LESB THAN INDICATED VALUE NO END DATE PROVIDED	* 30.0				
05-SEP89	89 07-DEC-89		76.8	0.8	13.7	643	
13-SEP-89	89 13-DEC-89		530. 7	8	5.7	91	
07-SEP-89	89 08-JAN-90		593.8	₩.	ان 4	123	
05-SEP-89	89 05-DEC-89		83.8	0.9	13.2	16	
15-SEP-89	89 13-DEC-89	No.	162.8	1.8	,10. 2	68	
15-SEP-89	89 13-DEC-89	•	206. 5		8 0	89	
12-SEP-89	89 26-DEC-89		38. 2	0	18.0	105	
09-SEP-89	89 10-DEC-89		57.5	9.0	15. 4	45	
10-SEP-89	B9 NOT GIVEN	ND END DATE PROVIDED	113.6		11.6		
NOT GIVEN	EN 30-DEC-89	NO START DATE PROVIDED	73.3		14.0		
NOT SIVEN	EN NOT GIVEN	NO DATES PROVIDED	31.2		19.2		
08-SEP-89	B9 NOT GIVEN	NO END DATE PROVIDED	71. 5		14.1		
05~SEP~89	B9 NOT GIVEN	* - LESS THAN INDICATED VALUE NO END DATE PROVIDED	* 30.0				

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Radon Monitoring Report

Acct. No. 0400063

ARGONNE NATIONAL LABORATORY ATTN TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60439

Tech Ops Radon Detection Products 2 Science Road Genwood, Minos 60425-1586 Telephone (708) 755-7000

Defector Number	Detector	Starting Date	Ending Date	Field Data / Comments	Exposure pCi/I-days	Avg. Radon Conc. pCiff	STD	NO. OF DAYS
1643094	DRN	NOT GIVEN	NOT GIVEN	NO DATES PROVIDED	73.3		14.0	
1645099	NHO	05-5EP-89	31-DEC-89		54.0	9.0	15.8	117
1645100	DRN	03-SEP-89	06-JAN-90		71.5	9.0	14.1	123
1645102	S S	05~SEP~89	05-SEP-89 '05-DEC-89		111.8	1.2	11.7	91
1645104	משט	15-6EP-89	10-DEC-89		92.6	1.1	12.7	98
1645106	DRN	05-SEP-89	08-DEC-89	:	85. 6	0.9	13. 1	44
1645110	DRN	09-SEP-89	05-DEC-89		34.0	0.6	15.8	91
1645112	DRN	05-5EP-89	10-DEC-89		101.3	1.1	12.2	96
1645117	DRN	09~SEP~89	03-DEC-89	* - LESS THAN INDICATED VALUE	* 30.0	• 0.3		16
1643119	DRN	08-SEP-89	13-DEC-89		106. 6	1.1	12.0	6
1645122	URN	05-8EP-89	05-DEC-89		66.3	0.7	14.6	91
1645123	DRN	68-435-60	17-DEC-89		92. 6	0.9	12.7	103
1645127	DRN	05-5EP-89	28-NOV-89		35. B	0.7	15.6	. 70
1645137	DRN	05-SEP-87	15-DEC-89		117.1	1.2	11. 5	101
1645139	N de S	98-926-89	NOT GIVEN	NO END DATE PROVIDED	64. 5		14.7	
e	•	•	•		(6		0

Radon Monitoring Report

Acct. No. 0400063

ARGONHE NATIONAL LABORATORY
ATTN. 11NA BECKER, BLDG ER-203
9700 SOUTH CASS AVENUE
ARGONHE, IL. 60439

Tech/Ope Landeuer, Inc.
Redon Detection Products
2 Science Roed
Glerwood, Minois 60425-1586
Telephone (708) 755-7000 Condouer

Detector	Detector Type	Starting Date	Ending Date		Field Data / Comments	ents	Exposure pCill-days	Avg. Radon Conc. pCi/I		PCT STD 1 DEV 1	NO. OF DAYS
1645421	LEN	11-001-89	15-DEC-89				1035.	4 15.	0	4.1	65
1645422	DRN	12~SEP~89.	16-DEC-89				36.	5	0.4 18.	В.	95
1645427	DEN	12-SEP-87	19DEC-89				117.1		1.2 11.	ŧņ.	86
1645431	DRN	12-SEP-89	26-DEC-89				113.6		1.1	11.6	105
1645434	DRN	12-SEP-89	19-DEC-89				174.9		1.8 9.	9.6	86
1645462	DRN	16-0CT-89	16-JAN-90				38.	2	0.4 18.	0	26
1645465	DRN	07-SEP-89	10-DEC-89				73. :	3	0. 8 1.4.	1,4.0	44
1645479	DRN	07-SEP-89	08-DEC-89				92. 6		1.0 12.	12.7	26
1645590	DRN	NOT GIVEN	NOT GIVEN	+ - LESS NO DATES	THAN INDICA	THAN INDICATED VALUE PROVIDED	* 30.0				
1645591	DRN	NOT GIVEN	NOT GIVEN	* - LESS NO DATES	THAN INDICATED VALUE PROVIDED	ATED VALUE	* 30° 0				
1645596	D.R.N	NOT GIVEN	NOT GIVEN	* - LESS NO DATES	THAN INDICATED VALUE PROVIDED	ATED VALUE	30.0	0	•		
1845598	NAO	NOT GIVEN	NOT GIVEN	* - LESS NO DATES	THAN INDICATED VALUE PROVIDED	ATED VALUE	* 30.0	•	·		
Θ	●	0	•		•		•	0			•
				O.C. Release DLH	Process No. A06712	Report Date 06-FEB-90	Date Received 30~JAN-90	4	PACE 10	10 OF	16
			_	_	-						

AGGONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE AGGONNE, IL 60439

Tech.Ops Redon Detection Products 2 Science Road Grawood, Moois 60425-1586 Telephone (708) 755-7000

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Telephone (708) 755-7000	NO. DF DAYS						96			26		16			•
Telep	PCT STD DEV				14.7	9.1	10.9	14.6	15. 6	10.9	G	11.9	8	10. 7	
	Avg Radon Conc. pCiff						1. 4			4 :	•	1.2			Θ
	Exposure pCiil days	* 30° 0	• 30.0	0 .00 *	64.5	197.7	131.1	66.3	35. B	131.1	187.2	108.3	231.0	138.1	•
Acct. No. 0400063	Field Data / Comments	* - LESS THAN INDICATED VALUE NO DATES PROVIDED	* ~ LESS THAN INDICATED VALUE NO DATES PROVIDED	* - LESS THAN INDICATED VALUE NO END DATE PROVIDED	NO END DATE PROVIDED	NO END DATE PROVIDED		NO DATES PROVIDED	NO END DATE PROVIDED		NO END DATE PROVIDED		NO DATES PROVIDED	NO DATES PROVIDED	•
	Ending Date	NOT GIVEN	NOT GIVEN	PINT GIVEN	NOT GIVEN	NDT GIVEN	11-DEC-89	NOT GIVEN	NOT GIVEN	06-DEC-89	NOT GIVEN	11-DEC-89	NOT OIVEN	NOT GIVEN	●
60439	Starting Date	MOT GIVER	NOT GIVEN	10SEPB?	96-5EP-89	08-SEP-89	68-d35-90	NOT GIVEN	08-SEP-89	05-SEP-89	68-d25-11	11-5EP-89	NUT CIVEN	NOT CIVEN	©
ان ا	Detector	DRN	DRN	DRN	CRN	URN	DRN	DRN	อลเพ	DRN	DRN	DRN	DRN	DRN	©
AF GUNNE,	Detector	1645599	1645633	1645763	1645772	1645773	1645774	1645780	1645781	1645786	1645789	1645790	1645793	1645798	Θ

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Report Date 06-FEB-90

Process No. A06712

O.C. Release DLH

ARGONNE NATIONAL LABORATORY ATTH. TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60439

Toch Ops Ration Detection Products 2 Science Road Gerwood, linois 60425-1586 Telephone (708) 755-7000

Acct. No. 0400063	
Acct. No.	
¥.0.4	
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ARGONIE, I	

Detector	Detector	Starting Date	Ending	Field Data / Comments	Exposure pCiil-days	Avg. Radon Conc. pCi/I	STD	NO. OF: DAYS
1645800	DRN	NOT GIVEN	NOT GIVEN	NO DATES PROVIDED	203.0		8.9	
1645801	DRN	08-5EP-89	NOT GIVEN	NO END DATE PROVIDED	152.2		10.2	
1645803	DRN	08-SEP-89	26-JAN-90		267.8	1.9	7.9	142
1645804	DRN	NOT GIVEN	NOT GIVEN	NO DATES PROVIDED NO GOLO SEAL TAPE	0 89		4.	
1645805	DRN	NOT GIVEN	NOT GIVEN	NO DATES PROVIDED	145.1		10.4	
1645809	DRN	06-SEP-89	NOT GIVEN	NO END DATE PROVIDED	124. 1		11.2	
1645810	U.S.N	06-SEP-89	NOT GIVEN	NO END DATE PROVIDED .	129. 4		11.0	
1645813	NAG	06-SEP-89	NDT GIVEN	NO END DATE PROVIDED	136. 4		10.7	
1645816	DRN	04-SEP-89	NOT GIVEN	NO END DATE PROVIDED	164. 4	,	0	
1645820	DRN	06-SEP-89	NOT GIVEN	NO END DATE PROVIDED	75.0		13.9	
1645822	DRN	NOT GIVEN	NOT GIVEN	ND DATES PROVIDED	231.0		4.0	
1645860	DRN	08-AUG-89	08-DEC-89		33. B	o	15. 6	122
1645871	ORN	08-SEP-89	NDT GIVEN	NO END DATE PROVIDED	82. 1		13.4	
1645873	D.R.N	08-5EP-89	NOT GIVEN	NO END DATE PROVIDED	95. 6		12. 7	
	1]	END DATE 12-07				6

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Report Date 06-FEB-90

Process No. A06712

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ARGONNE NATIONAL LABORATORY ATTN. TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60435

Tech Ops Radon Detection Products 2 Science Road Gerwood, limos 60425-1586 Telephone [708] 755-7000

Acct. No. 0400063

DRN OB-SEP-83 DRN 07-SEP-83 DRN 11-OCT-89 DRN 12-SEP-89 DRN 11-OCT-89 DRN 11-OCT-89 DRN 11-OCT-89 DRN 11-OCT-89 DRN 11-OCT-89 DRN 11-OCT-89 DRN 12-SEP-89 DRN 12-SEP-89 DRN 12-SEP-89 DRN 12-SEP-89	08-DEC-89 15-DEC-89 15-DEC-89 15-DEC-89 15-DEC-89	NO END DATE PROVIDED NO END DATE PROVIDED	68.0 83.8 1003.9 108.8 108.8 1054.7	13. 4. 4. 15. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	4 4 4 51 4 4	65 65 65 65
DRN 07-5EP-69 DRN 11-0CT-89 DRN 12-5EP-89 ERN 11-0CT-89 DRN 11-0CT-89 DRN 11-0CT-89 DRN 11-0CT-89 DRN 12-5EP-89 DRN 12-5EP-89 DRN 12-5EP-89 DRN 12-5EP-89 DRN 12-5EP-89 DRN 12-5EP-89	15-DEC-89 15-DEC-89 NOT GIVEN 15-DEC-89 15-DEC-89	NO END DATE PROVIDED NO END DATE PROVIDED	1003.9 1028.4 108.8 1074.0	20 20 40 40 40 40 40 40 40 40 40 40 40 40 40	2 E1 4 4 51 4 4 1 0 0 4 1 0 0 4 1 0 0 0 1 0 0 1 0 1	20 40 40 40 20 10 10 10 10
DRN 11-0CT-89 DRN 11-0CT-89 DRN 11-0CT-89 DRN 11-0CT-89 DRN 11-0CT-89 DRN 11-0CT-89 DRN 12-5EP-89 DRN 12-5EP-89	15-DEC-89 NOT GIVEN 15-DEC-89 15-DEC-89	NO END DATE PROVIDED	1003.9 1028.4 108.8 1074.0	20 10 40 40 4 80 10 50	1 4 4 5 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	20 40 40 40 20 20 20 20 20
DRN 11-0CT-89 DRN 12-5EP-89 DRN 11-0CT-89 DRN 11-0CT-89 DRN 12-5EP-89 DRN 12-5EP-89 DRN 12-5EP-89	15-DEC-89 NOT GIVEN 15-DEC-89	NO END DATE PROVIDED	1028.4 108.8 1074.0 1054.7	15.8 16.3 16.2	12.2	e e e
DRN 12-SEP-89 GRN 11-OCT-89 DRN 11-OCT-89 DRN 12-SEP-89 DRN 12-SEP-89 DRN 12-SEP-89	15-DEC-89	NO END DATE PROVIDED	108.8	16.3	12. 2. 4. 0	8 8 8
DRN 11-0CT-89 DRN 11-0CT-89 DRN 11-EEP-89 DRN 12-EEP-89 DRN 12-SEP-89	15-DEC-89		1054. 7	16.3	0 4	8 9 8
DRN 11-0CT-89 DRN 11-DCT-89 DRN 12-5EP-89 DRN 12-5EP-89 DRN 12-5EP-89	15-DEC-89		1054.7	16.2	0 +	89
11-0cT-89 12-5EP-89 12-5EP-89			4 7001			
DRN 12-5EP-89 DRN 12-5EP-89 DRN 12-5EP-89	13-DEC-89		1.7004	15. 5	4.4	69
DRN 12-5EP-89 DRN 12-5EP-89	NOT GIVEN	NO END DATE PROVIDED	136. 4		10.7	
DRN 12-SEP-89	20-DEC-89		302. 9	3.1	7.4	6
	NOT OTVEN	NO END DATE PROVIDED	120. 6		11.3	
1645925 DRN 12-SEP-89	19-DEC-89		82. 1	0.0	13.4	98
1646026 DRN 11-0CT-89	13-DEC-89		1023. 2	15.7	4.1	6.9
1646029 DRN 11-0CT-89	13-DEC-89		1063. 5	16. 4	. 0	6.3
1646421 DRN 08-SEP-89	NOT GIVEN	NO END DATE PROVIDED	157. 4		10.1	
0 0 0	Θ	©	•	Θ		•
		O.C. Release Process No. Report Dete	Date Received	PAGE	13 OF	91

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ARGONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60439

Tech Ops Radon Detection Products
2 Science Road
Genwood, liknois 60425-1586
Telephone (708) 755-7000

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	4000	1

NO. OF DAYS			91	91	91			91.	90	90	92.	26			6
STD	18. 6	18.3	6. 2	11.6	7.6	4.6	8.9	12. 0	7.3	9.9	6.9	9.3	10. 6		
Avg. Radon Conc. pCi/I			•	1.2	3.1		**************************************	1.2	4	4.	ci ci	2.0			Ç
Exposure pCul-days	34.7	36. 5	437.8	113.6	283. 6	812.9	364.2	104. B	309. 9	387.0	204.7	185. 5	139.9	30.0	
Field Data / Comments	NO END DATE PROVIDED	NO END DATE PROVIDED				NO DATES PROVIDED	NO END DATE PROVIDED						NO END DATE PROVIDED	+ - LESS THAN INDICATED VALUE NO DATES PROVIDED	
Ending Date	NDT GIVEN	NOT GIVEN	05-DEC-89	03-DEC-89	05-DEC-89	NOT GIVEN	NOT GIVEN	13-DEC-89	13-DEC-89	13-DEC-89	09-DEC-89	09-DEC-89	NOT GIVEN	NOT GIVEN	
Starting	10-SEP-89	10-SEP-89	05-SEP-89	03-SEP-99	05-SEP-89	NOT GIVEN	05-SEP-89	13-6EP-89	14~SEP-89	14-SEP-89	08-SEP-89	08-SEP-89	08-SEP-89	NOT GIVEN	
Detector	DRN	DRN	DRN	DRN	DRN	DRN	NEW	DRN	DRN	DRN	DRN	O RN	DRN	ЭЯН	
Detector	1646436	1646497	1646462	1646474	1646476	1646483	1646490	1646995	1647003	1647016	1647030	1647031	1647036	1647435	

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O.C. Refesse DLH

Acct. No. 0400063

ARGONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SDUTH CASS AVENUE ARGONNE, IL 60439

Tech Ops
Redon Detection Products
2 Science Road
Genwood, linois 60425-1586
Telephone (708) 755-7000

Detector	Starting Date	Ending Date		Field Data / Comments	nis.	Exposure pCif-days	Avg Radon Conc pCift	STD	ND. DF DAYS
DRN	NOT GIVEN	NDT GIVEN	* - LESS NO DATES	THAN INDICATED VALUE PROVIDED	ATED VALUE	* 30.0			
DRN	NOT GIVEN	NOT GIVEN	* - LESS NO DATES	THAN INDICATED VALUE PROVIDED	ATED VALUE	* 30.0			
DRN	NOT GIVEN	'NOT GIVEN	+ - LEBB NO DATES	THAN INDICATED VALUE PROVIDED	ATED VALUE	30.0			
DRN	NOT GIVEN	NOT GIVEN	+ - LESS NO DATES	THAN INDICATED VALUE PROVIDED	ATED VALUE	* 30.0			
N	11-SEP-89	17-DEC-89		•		104.8	1.1	12.0	47
S S	09-SEP-89	16-DEC-89				47.0	0	16.7	96
DRN	20-SEP-89	03-JAN-90	+ - LESS	- LESS THAN INDICATED VALUE	ATED VALUE	• 30.0	0. 9.	•	105
Z	10-SEP-89	09-DEC-89				48.8	Ö	5 16.4	06
D N	09~SEP-89	13-DEC-89				82.1	Ö	13.4	8
DRN	09-9EP-99	07-DEC-89	,			122. 4	-	4 11.3	
N N	16-SEP-89	16-DEC-89				8 '69	o	. .	5
NEG		19-JAN-90				125.9	1.0	11.1	129
:						180.2	2.0	9.4	91
2 6	13-5EP-87	⊣ .		0		•	©		•
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Report Date 06-FEB-90

Process No. A06712

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Radon Monitoring Report

ARGONNE NATIONAL LABORATORY ATTH: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60439

Tech Ops Redon Detection Products 2 Science Road Glenwood, Illinois 60425-1586 Telephone (708) 755-7000

		,		."			 	
Telephone (708) 755-7000	NO. OF DAYS	113	95	7.5	43			
	PCT STD DEV		12. 4	18. 9	14.6	12.0		
	Avg. Radon Conc. pCiff	* 0.3	1.0	♦ .0	1.5			
	Exposure pCi/l-days	* 30° 0	97.8	33.0	66.3	114.3		
Acct. No. 0400063	Freid Data / Comments	* - LESS THAN INDICATED VALUE				NO START DATE PROVIDED		
	Ending Date	28-DEC-89	12-DEC-89	20~NUV-89	23-0CT-89	11-DEC-89		
ARGDIANE, IL 60439	Starting Date	06-SEP-89	08-SEP-89	68-8EP-89	08-SEP-89	NOT GIVEN		
1 1	Detector	DRN	DRN	DRN	DRM	DRN		
Arguline, IL 60439	Detector	1648170	1648175	1648221	1648282	1648284	,	

ARCONNE MATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60439

Tech/Ope Landauer, Inc.
Redon Detaction Products
2 Science Road
Glerwood, Ilfnois 60425-1586
Telephone (708) 755-7000

0400063

29 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6															
Exposure Avg Radon 20.1 1 20.9 94.0 1 1.4 1 1.4 1 1.2 0.8 1 1.2 1 1.6 1 1 1.6 1 1 1.6 1 1 1.6 1 1 1 1 1	NO. OF DAYS		296					91	91		91			65	69
Exposure Avg Rad PC/// Idays Conc. pp 94. 0 94. 0 164. 1 372. 7 129. 1 71. 2 122. 1 162. 4 111. 6 251. 8 76. 5 137. 8	PCT STD DEV	14.6	16. 4	11.7	9.4	6.6	11.0	10. 4	12. 9	10.6	4.4	11.0	7.8	12. 6	10.1
P P P P P P P P P P P P P P P P P P P	Avg. Radon Conc. pCi/I		0.1					1.4	0.0		F. 8			1. 2	0
NO START DATE PROVIDED NO START DATE PROVIDED NO START DATE PROVIDED NO BATES PROVIDED NO BATES PROVIDED NO BATES PROVIDED NO START DATE PROVIDED NO START DATE PROVIDED NO START DATE PROVIDED NO START DATE PROVIDED	Exposure pC/// days		30. 9	94.0	164.1	372.7	109.8	129. 1	71.2	122. 1	162. 4	111.6	231.8	76.5	137.8
	Field Data / Comments	NO END DATE PROVIDED END DATE 4-26-90		NO START DATE PROVIDED	NO START DATE PROVIDED	NO END DATE PROVIDED	NO DATES PROVIDED			NO START DATE PROVIDED	,	NO START DATE PROVIDED	NO DATES PROVIDED		
Ending Date NDT GIVEN 15-JAN-90 25-JAN-90 25-JAN-90 NDT GIVEN 13-DEC-89 13-DEC-89 25-JAN-90 13-DEC-89 25-JAN-90 13-DEC-89 25-JAN-90 25-JAN-90 25-JAN-90 25-JAN-90 25-JAN-90	Starting Date	26-APR-89	25-MAR-89		NOT GIVEN	13-SEP-89	NOT GIVEN	13-SEP-89	13-SEP-89	NDT GIVEN	13-SEP-89	NOT GIVEN	NOT CIVEN	13-SEP-89	13-SEP-89
Starting 25-APR-89 NOT GIVEN 13-SEP-89	Detector	DRNA	DRNA	DRNA	DRNA	DRNA	DRNA	DRNA	DRNA	DRNA	DRNA	DRNA	DRNA	DRNA	DRNA
	Detrotor Number	1341742	1347509	1435998	1435999	1436000	1436001	1436002	1436006	1436022	1436026	1436031	1436050	1436054	1436056

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Date Received 30-JAN-90

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Process No. A06719

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Acct. No. 0400063

ARGONIVE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL. 60439

Tech Ops Redon Detection Products 2 Science Road Genwood, Minois 60425-1586 Telephone (708) 755-7000

133 97	2. 01 9. 01 11 12 12 12 12 12 12 12 12 12 12 12 12	1. 2 1. 3 1. 5	134. 3 153. 6 125. 6 101. 0 207. 9	10ED	NO START DATE PROVIDED NO END DATE PROVIDED NO DATES PROVIDED	25-JAN-90 ND START 24-JAN-90 NDT GIVEN ND END D/ NDT GIVEN ND END D/ NDT GIVEN ND DATES 19-DEC-89	NO START NO END D/ NO END D/	25-JAN-90 ND START 24-JAN-90 NDT GIVEN ND END D/ NDT GIVEN ND DATES 19-DEC-89
0	8.6 5.7 5.7 5.7	m ni	90.5		START	12-DEC-89 25-JAN-90	12-DEC-89 25-JAN-90	13-5EP-89 12-DEC-89 NOT GIVEN 25-JAN-90
104	7. 4 10. 2 8. 8	1. 3. 1.	134.3	IDED	NO END DATE PROVIDED	13-DEC-89 26-DEC-89 NOT GIVEN NO END DATE PROV	1-89	13-DEC-89 26-DEC-89
135	9.7	1.1	153.6	VIDED	NO START DATE PROVIDED		27-JAN-90 25-JAN-90	27-JAN-90 25-JAN-90
NO OF DAYS	STD N DEV D	Avg Radon Conc pCill	Exposure pc///days		NO DATES PROVIDED	NOT GIVEN NO DATES PROVIDED	-	NOT GIVEN

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Date Received 30-JAN-90

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Process No. A06719

O.C. Refease DLH

ARCONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60437

Tech/Ope Landeuer, Inc.
Redon Detection Products
2 Science Road
Glerwood, Illrois 60425-1586
Telephone (708) 755-7000

0400063 Acct. No.

Detector	Defector	Starting Date	Ending Date	Field Data / Comments	Exposure pCi/I-days	Avg Radon Conc. pCi/I	STD	NO. OF DAYS
1436199	DRNA	13-SEP-89	13-DEC-89		243.0	2.7	B. 0	91
1436203	DRNA	13-SEP-89	14-DEC-89		106.3	1.2	11.2	26
1436205	DRNA	NOT GIVEN	25-JAN-90	NO START DATE PROVIDED	116.8		10.8	
1436208	DRNA	NOT CIVEN	-25-JAN-90	NO START DATE PROVIDED	162. 4		o. •	
1641513	DRN	12-SEP-89	NOT GIVEN	NO END DATE PROVIDED	113.6		11. 6	
1641514	DRN	12-5EP-89	NDT CIVEN	NO END DATE PROVIDED	40.0		17.7	
1641516	DRN	12-SEP-89	12-DEC-89		85. 6	0.0	13.1	16
1641521	DRN	12-SEP-89	NOT GIVEN	NO END DATE PROVIDED	42.6		12.7	
1641526	DRN	12-SEP-89	13-DEC-89		40.0	0	17.7	45
1641529	DRN	12-SEP-89	14-DEC-89		139. 9		10.6	63
1641532	NAG	NOT GIVEN	NOT GIVEN	* - LESS THAN INDICATED VALUE NO DATES PROVIDED	• 30.0			
1641534	N N	12-SEP-89	NOT GIVEN	NO END DATE PROVIDED	139.9		10.6	
1641546	DRN	12-SEP-89	12-DEC-89		71. 5	8 0	14. 1	16
1641549	DRN	12-SEP-89	NOT GIVEN	NO END DATE PROVIDED	157. 4		10.1	
(E	6	E	•	•		e		6

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Date Received 30-JAN-90

Report Date 06-FEB-90

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O.C. Release DLH

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Acct. No. 0400063

ARGONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60439

Tech/Ope Lendeuer, Inc. Redon Detection Products 2 Science Road Glerwood, Illinois 60425-1586 Telephone (708) 755:7000

1643286 DRN 08-SEP-89 NOT GIVEN NOT GI	Detector	Detector	Starting Date	Ending Date		Field Data / Comments	ments	Exposure pCirl.days	Avg	Avg. Radon Conc. pCiff	PCT STD DEV	NO. OF DAYS
DRN 11—0CT—89 15—DEC—89 4 II DRN 08—SEP—89 08—DEC—89 100—0CT—89 10040.7 1014.4 11.0 12.9 4 II 100.9 12.9	642286	DRN	08-SEP-89	NOT GIVEN	2		ED	101.	3		12. 2	
DRN GB-SEP-B9 GB-DEC-B9 T. 1 - 0.14.4 1.014.4 1.0.6 4.1 6 DRN 11-0CT-B9 15-DEC-B9 13-DEC-B9 134.6 11.4 15.6 4.1 6 DRN 12-SEP-B9 12-DEC-B9 11-JAN-90 141.6 10.3 11.7 4.1 6 DRN 12-SEP-B9 11-JAN-90 A. 11-JAN-90	642289	DRN	11-0CT-89					1040.	_	16.0	4.1	65
DRN 11-GCT-89 13-DEC-89 NOT GIVEN NOT	642300	DRN	08-SEP-89					. 89		1.0	12.9	16
DRN 12-SEP-89 NDT GIVEN ND DATE PROVIDED 134.6 10.37.2 11.4 4.1 6 10.8 10.8 10.8 10.8 10.8 10.9 4.0 6 10.9 4.0 6 10.9 4.0 6 10.9 4.0 6 10.9	642306	DRN	11-0CT-89	13-DEC-89				1014.	*		4. 1	69
DRN 12-SEP-89 12-DEC-89 12-DEC-89 12-DEC-89 11.4 4.1 6 4.1 6 4.1 6 4.1 6 6 4.1 6 6 6 7.1 7 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 4.0 6 6 10.5 <t< td=""><td>643197</td><td>DRN</td><td>12-SEP-89</td><td>NDT GIVEN</td><td></td><td>ATE PROVID</td><td>ED</td><td>134.</td><td>9</td><td>·</td><td>10.8</td><td></td></t<>	643197	DRN	12-SEP-89	NDT GIVEN		ATE PROVID	ED	134.	9	·	10.8	
DRN I12-SEP-B9 I11-JAN-90 A 11.6 A	643200	DRN	12-SEP-89	12-DEC-89				1037.	- Cu	11.4	4,	91
DRN 12-SEP-89 11-JAN-90 4.0 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 6 4 6 6 4 6 6 4 6 7 0 6 7	643203	DRN	NOT GIVEN	NDT GIVEN	NO DATES	PROVIDED		141.	-9		10.5	
DRN 11-OCT-89 15-DEC-89 4.0 4 DRN 11-OCT-89 15-DEC-89 4.0 4.0 4 DRN 14-SEP-89 23-OCT-89 11.6 2.9 11.6 3 DRN 12-SEP-89 NOT GIVEN NO END DATE PROVIDED 75.0 13.9 13.9 DRN 12-SEP-89 NOT GIVEN NO END DATE PROVIDED 254.1 8.3 DRN 11-OCT-89 15-DEC-89 4.0 4.0 6 DRN 11-OCT-89 17-DEC-89 6.0 4.0 6 DRN 11-OCT-89 17-DEC-89 6.0 4.0 6 DRN 05-SEP-89 17-DEC-89 6.0 6 4.8 5.9 10 DRN 05-SEP-89 17-DEC-89 FOC Release 6.0 6 7.8 5.9 10 DRN 05-SEP-89 17-DEC-89 FOC Release 6.0 6 7.8 5.9 10 DRN 05-SEP-89 17-DEC-89	643233	DRN	12-SEP-89	11-JAN-90			٠	211.	_	1.7	89	121
DRN 11-OCT-89 15-DEC-89 4.0 4.0 DRN 14-SEP-89 23-DCT-89 11.6 2.9 11.6 3 DRN 12-SEP-89 NOT GIVEN NO END DATE PROVIDED 75.0 13.9 13.9 DRN 07-OCT-89 NOT GIVEN NO END DATE PROVIDED 254.1 8.3 DRN 11-OCT-89 15-DEC-89 4.0 4.0 4 DRN 11-OCT-89 17-DEC-89 4.0 4.0 4 DRN 05-SEP-89 17-DEC-89 6.0 6.0 6.0 6.0 B 0 0 0 0 0 6.0 6.0	643415	DRN	11-0CT-89	15-DEC-89				1001		16.3	0.4	69
DRN 14-SEP-89 23-DCT-89 11.6 2.9 11.6 3 DRN 12-SEP-89 NOT GIVEN NO END DATE PROVIDED 75.0 13.9 DRN 12-SEP-89 NOT GIVEN NO END DATE PROVIDED 254.1 8.3 DRN 11-OCT-89 15-DEC-89 15-DEC-89 4.0 4.0 DRN 11-DCT-89 17-DEC-89 4.0 495.6 4.8 5.9 10 DRN O. SEEP-89 17-DEC-89 O. Release Process No. Apple Report Date O. A. B 5.9 10 O. Release O. Release Process No. Report Date OJan-90 PAGE 4 OF 9	643427	DRN	11-0CT-89	15-DEC-89				1074.		16.5	6	63
DRN 12-SEP-89 NOT GIVEN NO END DATE PROVIDED 75.0 13.9 DRN 07-OCT-89 NOT GIVEN NO END DATE PROVIDED 254.1 8.3 DRN 11-OCT-89 15-DEC-89 15-DEC-89 16.9 4.0 6 DRN 11-OCT-89 17-DEC-89 17-DEC-89 6.0 4.0 6 O O O O Report Date O O O O OC. Release Process No. DLH AO6-119 O6-FEB-90 30-JAN-90 PAGE 4 0F 9	643443	DRN	14-SEP-89	23-0CT-89	•			113.	9	O.	11. 6	39
DRN O7-OCT-89 NOT GIVEN NO END DATE PROVIDED 254.1 8.3 DRN 11-OCT-89 15-DEC-89 4.0 4.0 6 DRN 05-SEP-89 17-DEC-89 6 6 7.0 B 0.0 0.0 0.0 0.0 0.0 B 0.0 0.0 0.0 0.0 0.0 0.0	643689	DR.N	12-SEP-89	NOT GIVEN	END	ATE PROVID	ED	75.	•		13.9	
DRN 11-OCT-89 15-DEC-89 4.0 4 DRN 05-SEP-89 17-DEC-89 4.0	644093	DRN	07-0CT-89	NOT GIVEN	END		ED	254.			8.3	•
DRN O5-SEP-89 17-DEC-89 495.6 4.8 5.9 10	644096	S	11-0CT-89					1096.	<u> </u>	16.9	€.0	63
(2) (3) (4) (5) (5) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	644204		05-SEP-89	17-DEC-89				495.	- 5	4.8		103
Process No. Report Date Date Received A06.719 06-FEB-90 30-JAN-90 PAGE 4 OF	Θ	စ	0	0		©		•	D)			•
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Acct. No. 0400063

ARCONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARCONNE, IL 60439

Tech/Ope Landauer, Inc.
Redon Detection Products
2 Science Road
Gerwood, Ilfrois 60425-1586
Telephone (708) 755-7000

Detector Number	Defector	Starting	Ending		Field Date / Comments	ments	Exposure pCi/I-days	Con	Avg Radon Conc. pCi/I	PCT STD DEV	NO. OF DAYS
1644206	DRN	06-SEP-89	NOT GIVEN	NO END	DATE PROVIDED	ED	94	3		12.6	
1644213	DRN	05-SEP-89	NOT GIVEN		NO END DATE PROVIDED	ED	478.1			6.0	
1644224	DRN	11-SEP-89	11-DEC-89				0.89		0.7	14. 4	16
1644225	DRN	11-SEP-89	11-SEP-89 18-JAN-90				34. 7		0.3	18.6	129
1644227	DRN	13-SEP-89	12-DEC-89				257.3		9	8.0	06
1644232	DRN	11-SEP-89	19-DEC-89		THAN INDI	- LESS THAN INDICATED VALUE	* 30.0	*	0.3		66
1644238	DRN	10-SEP-89	NOT GIVEN		NO END DATE PROVIDED	ED .	93.8			15.6	٠
1644240	DRN	NOT CIVEN	11-DEC-89	ş	START DATE PROVIDED	IDED	64.5			14.7	
1644247	ORN	11-SEP-89	NOT CIVEN	Ş	END DATE PROVIDED	: O3	80.3			13.5	
1644251	DRN	11-SEP-89	11-DEC-89				31.2	~	6	19.2	91
1644252	DRN	11-SEP-89	15-NOV-69	*	THAN INDIC	LESS THAN INDICATED VALUE	* 30.0	•	0		69
1644254	DRN	11-SEP-89	11-DEC-89				43.5		0	17.1	16
1644323	DRN	12-SEP-89	12-DEC-89				178. 4		9.	9.3	91
1645433	DRN	11-0CT-89	15-DEC-89				1079. 2		16. 6	4.0	69
1645475	DRN	06-SEP-89	13-DEC-89	+ - LES8		THAN INDICATED VALUE	* 30.0	•	0.3		86
Θ	⊙	ම	• I		0		•		0		•
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Acct. No. 0400063

ARGONNE NATIONAL LABORATORY ATTN: 11NA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, 1L 60437

Condours

Tech/Ope Lendauer, Inc.
Radon Detection Products
2 Science Road
Glenwood, lifnois 60425-1586
Telephone (708) 755-7000

Detector Number	Detector Type	Starting	Ending	Field Date / Comments	Exposure pCi/I-days	Avg Radon Conc. pCifl	STD	NO. OF DAYS
1645650	DRN	NDT GIVEN	NDT GIVEN	* - LESS THAN INDICATED VALUE NO DATES PROVIDED	* 30.0			
1645762	DRN	NOT GIVEN	13-DEC-89	NO START DATE PROVIDED	55.8		15.6	
1645764	DRN	11-SEP-89	NOT GIVEN	NO END DATE PROVIDED	73.3		14.0	
1643766	DRN	10-SEP-89	10-DEC-89		41.7	0.5	17.4	16
1645769	DRN	10-SEP-89	NOT GIVEN	NO END DATE PROVIDED	40.0		17.7	
1645876	N N N	08-SEP-89	NOT GIVEN	NO END DATE PROVIDED NO GOLD SEAL TAPE	38. 2		18.0	
1645903	DRN	11-0CT-89	15-DEC-89		1044.2	16.1	4. 1	69
1645909	DRN	11-0cT-89	15-DEC-89		863.7	13.3	4 . S	62
1646034	DRN	11-0CT-89	15-DEC-89		941.6	15.3	4.2	£9
1646422	DRN	08-SEP-89	08-DEC-89		200. 1	S	ę. 3	91
1646423	DRN	08-SEP-89	08-DEC-89		199. 5	Ci Ci	9.0	41
1646425	D N	10-SEP-89	10-DEC-89		45.3	0.3	16.9	16
1646427	DRN	NOT GIVEN	12-DEC-89	NO START DATE PROVIDED	59.3		15.2	
	2	NOT GIVEN	NOT OTOEN	WN DATES PROVIDED	57.5		15.4	

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ARGONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60439

Tech Ops Redon Detaction Products
2 Science Road
Genwood, Knois 60425-1586
Telephone (708) 755-7000

Acct. No. 0400063

Detector	Detector	Starting	Ending		Field Data / Comments	ents	Exposure	Avg Radon	STD	NO. OF
	, ype	Cate					pCill days	Cone pein	DEV	DAYS
1646441	DRN	11-0CT-89	11-JAN-90				166.2	1.8	9.6	26
	CRN	10-SEP-89	NOT GIVEN	NO END DA	NO END DATE PROVIDED		38.2		18 0	
	DRN	NOT GIVEN	11-DEC-89	NO START I	START DATE PROVIDED	DED	115.4		11. 5	
	DRN	10-SEP-89	NOT CIVEN	NO END DA	END DATE PROVIDED	٥	61.0		12.1	
	DRN	10-SEP-89	10-JAN-90				41.7	6.0	17.4	122
	DRN	08-SEP-89	23-0CT-89	* - LESS	THAN INDIC	* - LESS THAN INDICATED VALUE	* 30.0	+ 0.7		45
	DRN	10-SEP-89	NOT GIVEN	NO END DA	NO END DATE PROVIDED		48.8		16. 4	
	DRN	03~SEP~89	10-DEC-89				509.7	9.3	8 9	96
	NEG	06-SEP-89	NOT GIVEN	NO END DA	NO END DATE PROVIDED	e	90.8		12.8	
	DRN	06-SEP-89	06-DEC-89				103.1	1.1	12.1	91
	NEG	12-9EP-89	12-DEC-89	·		•	66.3	0.7	14.6	91
	DRN	05-SEP-89	NOT GIVEN	NO END DATE	TE PROVIDED		9.196		4.2	
	DRN	06-SEP-89	NOT GIVEN	NO END DA	NO END DATE PROVIDED		78.5		13.6	
	DRN	06-SEP-89	06-DEC-89			-	148.6	1.6	10.3	9.1
	200	04-9FP-89	14-DEC-89				152.2	1. 5	10.2	66
1	0	0	Θ		Θ		•	0		⊚
١ .				O.C. Release DLH	Process No. A06719	Report Date 06-FEB-90	Dete Received 30-JAN-90	PAGE	7 OF	•

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Acct. No. 0400063

ARGONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 STUTH CASS AVENUE ARGONNE, IL 60439

Tech Ops Radon Detection Products 2 Science Road Glenwood, Illnois 60425-1586 Telephone (708) 755-7000

Defector Number	Detector	Starting Date	Ending Date	Field Data / Comments	Exposure pCi/l-days	Avg. Radon Conc. pCiff	STD	NO. OF DAYS
1646495	DRN	06-SEP-89	15-DEC-89		148.6	1.5	10.3	100
1647431	DRN	NDT GIVEN	MOT GIVEN	* - LESS THAN INDICATED VALUE NO DATES PROVIDED	* 30° 0			
1647444	DRN	NOT GIVEN	NOT GIVEN	 LESS THAN INDICATED VALUE NO DATES PROVIDED 	* 30.0			
1647456	N.	NOT GIVEN	NDT GIVEN	* - LESS THAN INDICATED VALUE NO DATES PROVIDED	* 30.0			
1647500	DRN	NOT GIVEN	NOT GIVEN	* - LESS THAN INDICATED VALUE NO DATES PROVIDED	* 30.0		•	
1647544	DRN	12-SEP-89	07-DEC-89		120.6	1. 4	11.3	98
1647545		12-SEP-89	11-DEC-89		113.6	1.3	11.6	90
1647554		12-SEP-89	12-NOV-89		111.8	1.8	11.7	61
1647557		09-SEP-89	11-DEC-89		504. 4	A.0	9.8	43
1648143	DRN	08-SEP-89	NOT GIVEN	NO END DATE PROVIDED	89. 1		12.9	
1648149		18-SEP-89	17-DEC-89	* - LESS THAN INDICATED VALUE	* 30.0	÷ 0.3		06
1648172		68-d35-90	06-DEC-89		36. 5	o .	18. 3	91
166937	200	06-SEP-89	NOT GIVEN	NO END DATE PROVIDED	134.6		10. B	•
1040667		200		1	•	Θ		⊚

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ARGONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVERUE ARGONNE: IL 60439



Tech/Ope Landeuer, Inc.
Redon Detection Products
2 Science Road
Glerwood, Minois 60425-1586
Telephone (708) 755-7000

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Detector	Detector Type	Starting Date	Ending	Field Data / Comments	s:r	Exposure pCi/I-days	Avg Radon Conc pCIII	PCT STD DEV	NO. OF DAVS	
1648234	DRN	15-0CT-89	03-JAN-90			187.2	2.3	9.3	80	
1648243	DRN	NOT GIVEN	NOT GIVEN	NO DATES PROVIDED		45.3		16.9		
1643249	DRN	06-SEP-89.	NOT GIVEN	NO END DATE PROVIDED		57. 5		15.4		
1648251	DRN	NOT GIVEN	NOT GIVEN NOT GIVEN	NO DATES PROVIDED		2016. 6		4.0	-	
1648252	DRN	08-SEP-89	07-DEC-89			599. 0	6.7	න ල	06	
1648253	DRN	07-SEP-89	NOT CIVEN	NO END DATE PROVIDED		139.9		9 '01		
1648265	NAO	08-SEP-89	NOT GIVEN	NO END DATE PROVIDED		108.3		11.9		
1648273	DRN	NOT GIVEN	NOT CIVEN	NO DATES PROVIDED		301.1		7.4		
1648276	משמ	NOT GIVEN	06-DEC-89	NO START DATE PROVIDED	ĒĎ	83.8		13.2		
1648277	DR.N	NOT GIVEN	07-DEC-89	NO START DATE PROVIDED	ED .	371.2		6.7		
1648278	DRN	08-3EP-80	NOT GIVEN	NO END DATE PROVIDED		113.6		11.6		
1648281	DAN.	08-SEP-89	11-DEC-89	•		9.66	1.1	12.3	*	
1648286	DRN	08-SEP-89	NOT GIVEN	NO END DATE PROVIDED		52.3		16.0		-
Θ	©	0	Θ	•		•	0		•	
				O.C. Release Process No. DLH A06719 C	Report Date 06-FEB-90	Dete Received 30-JAN-90	PAGE	9 0F	0	

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ARGONNE NATIONAL LABGRATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60439

Tech Ops
Redon Detection Products
2 Science Road
Gerwood, Minois 60425-1586
Telephone (708) 755-7000

Detector	Starting	Ending Date	Freid Data / Comments	Exposure pCi/l·days	Avg. Radon Conc. pCill	STD	NO. OF DAYS
DRNA	13-5EP-89	31-JAN-90		227.0	1.6	8.5	140
1436025 DRNA		08-JAN-90		70. 4	9.0	13.4	123
DRNA	13-SEP-89	NOT GIVEN	NO END DATE PROVIDED	307. 1		7.4	
DRNA		NOT GIVEN 105-FEB-90	NO START DATE PROVIDED	128.2		10.7	
1641183 DRN	07-SEP-89	07-FEB-90		330. 5	2.2	7.3	153
Z Z	08-SEP-89	NOT GIVEN	NO END DATE PROVIDED	₩ 96. 4		13.5	
1641193 DRN	11-SEP-89	11-FEB-90		211.2	1. 4	9.1	153
	07-9EP-89	08-JAN-90	•	395. 7	9.5	6.7	123
	12-SEP-89	NOT GIVEN	NO END DATE PROVIDED	188.9		 U	
	12-SEP-89	NOT CIVEN	NO END DATE PROVIDED	207. 5		9.1	
	14-SEP-89	05-FEB-90	•	349. 1	ę,	7.1	144
2	11-0cT-89	19-DEC-89		1005.0	15.5	4.3	69
		15-DEC-89		1034.8	15.9	4	69
Nad 1050441		05-FEB-90		97.6	0.7	12.8	149
	00			181. 4	1.3	9.7	142
1642345 DKN	07-3Er-07	E 7 OUIV			e		(

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ARGONNE NATIONAL LABORATORY
ATTN: TINA BECKER, BLDG ER-203
9700 SOUTH CASS AVENUE
ARGONNE, IL 60439

Tech Ops Radon Detection Products 2 Science Road Glenwood, linnois 60425-1586 Telephone (708) 755-7000

Derector Number	Detector	Starting Date	Ending Date	Field Data / Comments	Exposure pCi/I-days	Avg Radon Conc pCi/I	STD	NO. OF DAYS
1642348	DRN	09-6EP-89	09-FEB-90		71.5	0.5	14.6	153
1643186	DRN	12-SEP-89	14-JAN-90		127.4	1.0	11. 4	124
1643223	DRN	12-SEP-89	05-FEB-90		330. 5	e e	7.3	146
1643234	DRN	12-SEP-89	05-FEB-90		134.8	0.0	11.1	146
1643428	DRN	10-0CT-89	06-FEB-90		270.9	6.	69.	119
1643431	DRN	10-0CT-89	06-FEB-90		131.1	1.1	11.3	119
1643432	DRN	11-0CT-89	15-DEC-89		1109. 4	17.1	4.1	92
1643648	DRN	09-SEP-89	03-FEB-90		71. 5	o. 3	14.6	147
1643660	SRN	12-SEP-89	06-FEB-90		229. 9	1.6	9.7	147
1643674	DRN	12-SEP-89	06-FEB-90		157.2	1.1	10. 4	147
1643690	DRN	12-SEP-89	28-JAN-90		138.6	1.0	11.0	138
1643692	DRN	13-8EP-89	13-DEC-89		62.2	0.7	15.4	. 91
1644008	Z Z	14-8EP-89	14-DEC-89		166. 5	1.8	10.1	91
1644010	Na	14-SEP-89	21-DEC-89		31.0	o o	16. 7	84
1444201	Z Z	06-SEP-89	09-FEB-90		231.7	1.5	8.7	152
e		6		•	(6		•

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ARGONNE NATIONAL LABORATORY
ATTN: TINA BECKER, BLDG ER-203
9700 SOUTH CASS AVENUE
ARGONNE, IL 60439

Tech Ops Redon Detection Products

2 Science Road Gerwood, linnis 60425-1586 Telephone (708) 755-7000	bcı
Acct. No. 0400063	
20 EM - 203	
7 Lu	i

NO. OF DAYS	152	148	148				91	133	118	147	153	153	91	16	
STD DEV	9.3	14, 7	15.4		14.0	14.7	10.8	9.3	14. 1	60 11	6 0	18.6			
Avg. Radon Conc. pCill	1.3	0.5	0.4			, .	1.6	1.3	0.7	1.8	1. 3	0.0	÷ 0.3	e •	
Exposure pCi/l-days	198.2	9.69	62.2	* 30.0	78.9	9.69	142.3	200. 1	77.1	269.0	226. 1	37.9	* 30.0	* 30.0	
Freld Data / Comments				+ - LESS THAN INDICATED VALUE NO DATES PROVIDED	'NO DATES PROVIDED	NO END DATE PROVIDED	. :						+ - LESS THAN INDICATED VALUE	* - LESS THAN INDICATED VALUE	
Ending	05-FEB-90	06-FEB-90	05-FEB-90	NOT GIVEN	NOT GIVEN	NOT CIVEN	15-DEC-89	07-FEB-90	01-JAN-90	06-FEB-90	07-FEB-90	06-FEB-90	11-DEC-89	11-DEC-89	
Starting Date	06-SEP-89	11-SEP-89	10-SEP-89	NOT GIVEN	NOT OTVEN	10-SEP-89	15-SEP-89	03-SEP-89	05~SEP-89	12-SEP-89	07-SEP-89	06-SEP-89	11-SEP-89	11-SEP-89	
Detector Type	DRN	DRN	DRN	S N	DRN	DRN	DRN	DRN	N. W.	DRN	NEG	DRN	DRN	DRN	
Detector Number	1644208	1644228	1644233	1644246	1644329	1644337	1645085	1645101	1645114	1645439	1645467	1645484	1645594	1645595	

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Radon Monitoring Report

ARGONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60439

Redon Detection Products
2 Science Road

Acct. No. 0400063

ARGONNE NATIONAL LABORATORY ATTN: TÎNA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, ÎL 60439

Tech Ops Redon Detection Products 2 Science Road Gerwood, linois 60425-1586 Telephone (708) 755-7000

Detector Number	Detector Type	Starting	Ending Date	Field Data - Comments	Exposure pCi/I-days	Avg Radon Conc pCi/I	STD	NO. OF DAYS
1645889	DRN	08-SEP-89	10-FEB-90		125. 5	0.8	11.5	155
1645892	DRN	16-0CT-89	09-FEB-90		116.2	1.0	11.9	116
1645907	DRN	11-0CT-89	15-DEC-89		1014.3	15.6	₽.3	92
1645912	DRN	11-0CT-89	-15-DEC-89		1120.6	17.2	€.	63
1646424	NRO NRO	10-SEP-89	06-FEB-90		95.7	9.6	12. 9	149
1646429	DRN	10-SEP-89	06-FEB-90		82.7	9.0	13.7	149
1646432	DRN	10-SEP-89	NOT GIVEN	NO END DATE PROVIDED	56. 6		18.0	
1646440	DRN	08-SEP-89	04-FEB-90		153. 5	1.0	10.5	149
1646448	N N N	10-SEP-89	11-DEC-89		179. 6	9	9.	42
1646452	DR.N	10-SEP-89	NOT GIVEN	NO END DATE PROVIDED	51.0		16. 7	
1646464	DRN N	05-SEP-89	07-FEB-90		684. 5	* *	5.2	155
1646472	DRN	05-SEP-89	07-FEB-90		1215. 6	7.8	9.6	155
1646487	DRN	06-SEP-89	NOT CIVEN	NO END DATE PROVIDED	343. 5		7.2	
1647022	DRN N	08-SEP-89	07-FEB-90		883.9	8 6	4.6	132
1447472		08-SEP-89	NOT GIVEN	NO END DATE PROVIDED	121.8		11.6	
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Radon Monitoring Report

Acct. No. 0400063

ARCONNE NATIONAL LASERATORY ATTN: TINA BEOMER, BLIG ER-203 9700 GOUTH CASS AVENUE ARGONNE, IL 80408

Tech Ops Radon Detection Products 2 Science Road Glenwood, Mrois 60425-1586 Telephone (708) 755-7000

DRM 13-3EP-89 NG TABLE NG END DATE PROVIDED DRM 13-3EP-89 03-446-90 19-JAN-90 DRM 11-00T-89 15-DEC-89 19-JAN-90 DRM 11-00T-89 22-FEB-90 13-FEB-90 DRN 11-5EP-89 14-JAN-90 13-FEB-90 DRN 11-5EP-89 14-JAN-90 13-FEB-90 DRN 11-5EP-89 13-FEB-90 13-FEB-90 DRN 12-5EP-89 25-JAN-90 13-FEB-90 DRN 12-5EP-89 27-JAN-90 0 DRN 12-5EP-89 27-JAN-90 0 DRN 12-5EP-89 27-JAN-90 0	Detector Number	Detector Type	Starting Date	Ending Date		Field Data / Comments	Siner	Exposure pCi/I-days	Avg Radon Conc. pCi/I	STD	NO OF DAYS
LIRIN 15EEP-B7 O3-HAR-90 1.3 B 4 17 1.2 225 1 1.3 B 4 17 1.2 1.3 B 4 17 1.4 6 1.7 B 5 17 1.2 1.4 6 1.7 B 5 17 1.2 1.2 1.2 226 1 1.7 B 5 17 1.1 6 1.1 6 1.1 6 1.1 6 1.1 6 1.1 6 1.1 6 1.1 6 1.1 6 1.1 6 1.2 1.1 6 1.2 1.1 6 1.2 6 1.2 1.1 6 1.2 1.1 6 1.2 1.1 4 1.1 6 1.2 1.2 4.5 2 1.1 6 1.2 1.2 1.2 4.5 2 1.3 1.2 4.5 2 1.3 1.2 4.5 2 1.3 4.5 3 1.1 4 1.1 4 1.1 4 1.2 4 1.2 4	1641180	DRN	05-d50-40			ATE PROVIDE	Q.	436. 2		6.3	
DRN 11-27T-89 19-JAN-90 11-27T-89 19-JAN-90 11-27T-89 116.1 4.1 6.1 4.1 6.1 4.1 6.1 4.1 6.1 4.1 6.1 4.1 6.1 4.1 6.1 4.1 6.1 4.1 6.1 4.1 6.1 4.1 6.1 4.1 6.1 4.1 6.1	641557	URN	68-d35-34	03-11AR-90				227. 9	1.3		172
DRN 11:-22T-89 13-DEC-89 11:-22T-89 11:-22T-89	642288	נאט	08-8EP-89	19-JAN-90			-	226. 1	1.7		133
DRN 12-SEP-89 22-FEB-90 13 116.5 116.5 11.2 16 11.2 16 11.2 11.2 16	642291	DRN			•			• 1044. 7	16.1		65
DRN 12-5EP-B9 23-FEB-90 43 7.4 16 DRN 11-5EP-B9 14-JAN-90 45.2 0.4 15.6 12 DRN 11-5EP-B9 16-FEB-90 16-FEB-90 1.2 9.2 19 DRN 12-5EP-B9 27-JAN-90 22-JAN-90 1.0 0.0 1.1 9.2 15 DRN 12-5EP-B9 27-JAN-90 22-JAN-90 1.16.5 0.7 11.2 16 11.6 11.2 11.2 11.2 16 11.2	642343	NWO	6B-d3S-60	22-FEB-90					7 0 7	11.2	166
DEN 11.5EP-89 14-JAN-90 1 45.2 0.4 f5.6 12 DRN 11.5EP-89 14-JAN-90 1 2 9.2 15 DRN 11.5EP-89 13-FEB-90 1 8 11.9 15 DRN 15-SEP-89 27-JAN-70 8 11.6 90.0 11.7 8.4 13 DRN 15-SEP-89 26-FEB-90 8 8 90.0 11.5 14 14 13 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 15 15 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16 16 1	643205	DRN	12SEP-89	23-FEB-90	•	;	3	304.7	1.9	7. 4	164
DRN 11-EEP-GG 16-FEB-90 1.2 9.2 15 DRN 12-SEP-B9 27-JAN-90 1.7 8.4 13 DRN 12-SEP-B9 26-FEB-90 1.7 8.4 13 DRN 12-SEP-B9 26-FEB-90 7.0 11.2 14.9 17.2 14.9 15.3 DRN 12-SEP-B9 27-JAN-90 4.9 27-JAN-90 6.8 13.3 14 DRN 12-SEP-B9 27-JAN-90 4.9 5.1 13 DRN 12-SEP-B9 27-JAN-90 4.9 5.1 13 DRN 12-SEP-B9 27-JAN-90 4.9 5.1 13 DRN 12-SEP-B9 27-JAN-90 8 6.8 13 DRN 12-SEP-B9 27-JAN-90 8 6.8 13 DRN 12-SEP-B9 27-JAN-90 8 6.8 13 DRN 0 0 0 0 0 0 0 DRN 0	643237	DRN N	68-425-11	14-JAN-90		:			♦ .0	15.6	125
DRN 09-56P-89 13-FEB-90 11.9 15 DRN 15-5EP-89 27-JAN-50 1.7 8.4 13 DRN 15-5EP-89 26-FEB-90 1.2 1.6 3.7 1.16.5 0.7 1.1.2 14 DRN 12-5EP-89 27-JAN-90 3.4 3.4 3.1<	643247	5.80 5.80	69-d35-11	15-FEB-90				185. 9	1.2	O.	158
DRN 1.E - SEP - B9 27 - JAN - 50 1.0 B. 4 13 DRN 1.E - SEP - B9 26 - FEB - 90 11.6 5 0.7 11.2 14 DRN 1.2 - SEP - B9 27 - JAN - 90 668.3 4.9 5.1 13 DRN 1.2 - SEP - B9 27 - JAN - 90 668.3 4.9 5.1 13 DRN 1.2 - SEP - B9 27 - JAN - 90 36B.6 2.7 6.B 13 DRN 1.2 - SEP - B9 27 - JAN - 90 36B.6 2.7 6.B 13 DRN 1.2 - SEP - B9 NOT GIVEN NO END DATE PROVIDED 337.6 7.1 OS - SERP - B9 O ENGEN BOOK BAR - 90 OB - MAR - 90	643647	ORN	98-438-60	13-FEB-90		•		100.0	9.0	11.9	157
DRN1 1.2—SEP-B9 26-FEB-90 116.5 0.7 11.2 16 DRN1 1.2—SEP-B9 0.1-FEB-90 1.2 4.9 1.2 14 CR11 1.2—SEP-B9 27—JAN-90 4.9 5.1 13 DRN 1.2—SEP-B9 27-JAN-90 337.6 2.7 6.8 13 OF-M 1.2—SEP-B9 NOT GIVEN NO END DATE PROVIDED 337.6 6.8 13 OB OB OB-MAR-90 OB-MAR-90 OB-MAR-90 OB-MAR-90 PAGE 1 OF 4	643676	URN	\$8-435-34	27-JAN-50				227. 9	1.7		137
DRN 12—3EP-R9 01-FER-70 4.9 0.6 12.3 14 ERII 12—3EP-R9 27—JAN-90 4.9 5.1 13 DRN 12—3EP-R9 27-JAN-90 Report Details 358.6 2.7 6.8 13 OF-N OR-SEP-R9 AND CIVEN NO END DATE PROVIDED ST. A.9 5.1 11 OR OR OR OR OR OR OR A.8 A.9 A.9 5.1 13 A.9 5.1 13 A.9 5.1 13 A.9 B.13 B.13 B.13 B.13 B.13 B.13 B.13 B.13 B.13 <td>643682</td> <td>DRN</td> <td>68-d35-21</td> <td>26-FEB-90</td> <td></td> <td></td> <td></td> <td>116.5</td> <td>0.7</td> <td></td> <td>167</td>	643682	DRN	68-d35-21	26-FEB-90				116.5	0.7		167
CRII 1252P-89 27-JAN-90 4.9 5.1 13 DRN 155EP-89 27-JAN-90 368.6 2.7 6.8 13 OFN .05-SEP-89 NOT GIVEN NO END DATE PROVIDED 337.6 7.1 O .0 .0 .0 .0 .0 O .0 .0 .0 .0 .0 ACP IASI ACP IASI 14-HAR-90 .0	643686	DRN	68d3521	01-FER-90				90.9	9.0		142
DRN 155EP-89 27-JAN-90 368.6 2.7 6.8 13 05M 05-SEP-89 NOT GIVEN NO END DATE PROVIDED 337.6 7.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	643687	CRT	98-425-51	27-JAN-90					6.4		137
OF W OR SETP-39 NOT GIVEN NO END DATE PROVIDED 337. 6 7. 1 (3) (4) (5) (6) (7) (7) (7) (4) (7) (7) (7) (7) (7) (7) (5) (7) <td< td=""><td>643993</td><td>, X</td><td>153EP89</td><td>27-JAN-90</td><td></td><td></td><td></td><td>368. 6</td><td></td><td>9.</td><td>137</td></td<>	643993	, X	153EP89	27-JAN-90				368. 6		9 .	137
(3) (4) (5) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	444021		00 1 du 1 m 1 m	NOT GIVEN	END		a:	337. 6		7. 1	
Process No. Report Date Date Received ACT 14. 14-MAR-90 OB-MAR-90 PAGE 1	0	7	©	Θ				•	0		•
					O.C. Release	Process No.	Report Date	Date Received OB-MAR-90	PAGE	10	•

Acct. No. 0400063

ARGONNE NATIONAL LABURATORY ATTH TIDA BECKER BUDG ER-203 9700 SOUTH CASS AVENUE ARGONNE IL 60472

Tech/Ops Lendeuer, Inc.
Redon Detection Products
2 Science Road
Glenwood, Minois 60425-1586
Telephone (708) 755-7000

Detector Number	Detector	Starting	Ending Date	Freid Data / Comments	Exposure pC// days	Avg Radon Conc. pCi/I	STD	NO. OF DAYS
1644203	DRN	e5-d25-50	NOT GIVEN	NO END DATE PROVIDED	118 3		11 1	
1644205	I'RH	98-8EP-89	16-FE3-90		227 9	1. 4	4	163
1644338	22	HOT STVEN	NOT GIVEN	NO DATES PROVIDED	182. 3		e B	
1645438	CRN	68-d25-61	NOT GIVEN	NO END DATE PROVIDED	2 99		0.41	
1645576	เหน	NECT GIVEN	NOT GIVEN	 LESS THAN INDICATED VALUE NO DATES PROVIDED 	* 30.0			
1645577	DRN	NOT GIVEN	NOT GIVEN	* - LESB THAN INDICATED VALUE NO DATES PROVIDED	* 30.0		•	
1645578	IRN	MOT SIVEN	NOT GIVEN	* - LESS THAN INDICATED VALUE NO DATES PROVIDED	30.0			
1645646	CRN	NOT GIVEN	NDT GIVEN	* - LESB THAN INDICATED VALUE NO DATES PROVIDED	* 30°0			
1645647	กลห	NOT GIVEN	NOT GIVEN	* - LESB THAN INDICATED VALUE NO DATES PROVIDED	* 30.0			
1643648	DRN	NOT GIVEN	NOT GIVEN	* - LESB THAN INDICATED VALUE NO DATES PROVIDED	* 30.0			
1645767	יאטט	10-SEP+89	22-FEB-90		39.7	0.0	16. 2	165
1645858	ORN	56-42S-60	08-DEC-89		58.0	0.6	14, 4	90
Θ	9	6	€	©	•	Θ		€

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PAGE

Date Received 08-MAR-90

Report Date 14-MAR-90

Process No. A07161

O.C. Release KSR

1

Acct. No. 0400063

ARGCHUE NATIONAL LABURATURY ATTH: TINA BECKER BLOG-ER-ZOX 9700 SCUTH CASS AVENUE ARGCHNE, IL 60457

Pach/Ope Lendeuer, Inc.
Radon Detaction Products
2 Science Road
Glenwood, Minois 60425-1596
Telephone (708) 755-7000

1645870 ERN 08-EED-SI 08-FED-SI 08-FED-SI	Detector Number	Detector	Starting	. Ending Date	Field Data / Comments	€	Exposure pCill days	Avg. Radon Conc. pCi/I	STD DEV	NO. OF DAYS	
DRN 11-DCT-05 15-DEC-08 15-D	1645870		55-325-80	09-FEB-90				0.5	ri	154	
DRN 11-OCT-59 15-DEC-89 16-DEC-89 16-D	1645891	DRN	-E-050-20	19-FEB-						79	
DRN 11-DCT-B9 15-DEC-B9 15-DEC-B9 15-DEC-B9 4.2 4.2 4.3 DRN 10-SEP-B9 19-FEB-90 A.2 11.3	1645905		11-001-69	15-DEC-89			953. 4	14.7		4 0	
DRN 11-DEC-B9 15-DEC-B9 A-1-A	1645914	DRM		-13-DEC-					4	99	
DRN 10~5EP~89 19~FEB~90 MO END DATE PROVIDED 112.8 112.8 113.8 113.8 113.8 113.8 113.8 113.8 113.8 113.8 113.9 113.8 113.8 113.9 113.9 113.9 113.9 113.9 113.9 113.9 114.3 113.9 114.3 115.4 113.9 114.9	1645927	DRN	11-DEC-89	15-DEC-89			946.0	236. 5		4	
DRN 10-5EP-89 NOT GIVEN NOT	1646430	N.R.O	10-SEP-89	19-FEB-90	•		61.7	•		162	
DRN 10~5EP~89 29~DEC~89 78.1 78.1 78.1 78.1 17.4 11.4	1646435		10-5EP-89	NDT GIVEN	NO END DATE PROVI		112.8		11.3		
DRN 12-GEP-89 O1-FEB-90 * - LESS THAN INDICATED VALUE * 30.0 * 0.3 13.0 11 DRN 29-DCT-89 19-FEB-90 * - LESS THAN INDICATED VALUE * 30.0 * 0.3 15.4 17 DRN 29-DCT-89 19-FEB-90 * - LESS THAN INDICATED VALUE * 30.0 * 0.2 116 DRN 05-EEP-39 NOT GIVEN NO END DATE PROVIDED * 363.2 * 0.2 * 6.8 DRN 07-EEP-39 NOT GIVEN NO END DATE PROVIDED * 0.2 * 0.2 * 8.8 DRN 01-2CT-37 19-FE3-90 * 6.8 * 6.8 * 9.8 * 14 DRN 01-2CT-37 19-FE3-90 * 6.8 * 6.8 * 6.8 * 14 DRN 01-2CT-37 19-FE3-90 * 6.8 * 6.8 * 6.8 * 14 DRN 01-2CT-37 19-FE3-90 * 6.8 * 6.8 * 6.8 * 6.8 * 6.8 DRN 01-2CT-37 19-FE3-90 * 6.8 * 6.8 * 6.8 * 6.8 * 6.8	1646437	DRN	10-SEP-89	29-DEC-89			30. 6	. 0.3	17.4	110	
DRN O6-EZP-89 24-FEB-90 * - LESS THAN INDICATED VALUE * 30.0 * 0.3 15.4 17.0 DRN 29-DCT-89 19-FEB-90 * - LESS THAN INDICATED VALUE * 30.0 * 0.2 14.8 CRN 06-EEP-99 19-FEB-90 * - LESS THAN INDICATED VALUE * 30.0 * 0.2 16.8 DRN 07-EEP-99 NOT GIVEN NO END DATE PROVIDED * 36.0 * 0.2 6.8 DRN 01-2CT-83 19-FE3-90 * 0.5 * 0.2 1.2 9.8 14 CN 0 0 0 0 0 0 0 8 14	1647549	DRN	12-9EP-89	01-FEB-90		5	78.1		13.0	142	
DRN 29-DCT-89 19-FEB-90 * - LESS THAN INDICATED VALUE * 30.0 * 0.3 114 DRN 05-5EP-89 19-FE3-90 * - LESS THAN INDICATED VALUE * 30.0 * 0.2 16.8 DRN 07-3EP-89 NOT GIVEN NO END DATE PROVIDED * 363.2 6.8 16.8 DRN 07-3EP-89 NOT GIVEN NO END DATE PROVIDED * 0.2 6.8 14 DRN 01-3CT-87 19-FE33-90 * 0.8 * 0.8 * 0.8 14 DRN 01-3CT-87 19-FE33-90 * 0.8 * 0.8 * 0.8 14 DRN 01-3CT-87 19-FE33-90 * 0.8 * 0.8 * 0.8 14 DRN 01-3CT-87 01-3CT-87 * 0.8 * 0.8 * 0.8 * 0.8 * 0.8 DRN 01-3CT-87 01-3CT-87 * 0.8 * 0.8 * 0.8 * 0.8 * 0.8 * 0.8 * 0.8 * 0.8 * 0.8 * 0.8 * 0.8 * 0.8 * 0.8 * 0.8 * 0.8 * 0.8 * 0.	1648167	DRN	68-423-90	24-FEB-90			47.0	0.0	15.4	171	
CRM 0.6-EEP-99 19-FEB-90 * - LESS THAN INDICATED VALUE * 30.0 * 0.2 16.8 DRN 0.7-EEP-E9 NOT GIVEN NO END DATE PROVIDED 363.2 6.8 DRN 0.1-207-33 19-FE3-90 END DATE 162.2 1.2 9.8 14 B B B B B B B B B A B <td>1648173</td> <td>DRN</td> <td>29-DCT-89</td> <td>19FEB-90</td> <td>*</td> <td>TED VALUE</td> <td>* 30.0</td> <td>* 0.3</td> <td></td> <td>113</td> <td></td>	1648173	DRN	29-DCT-89	19FEB-90	*	TED VALUE	* 30.0	* 0.3		113	
DRN 07-SEP-SS NOT GIVEN NOT GIVEN NOT GIVEN NOT GIVEN CUST HAS 3-21-90 END DATE 363.2 6.8 14 DRN 01-201-37 19-FE3-90 AC Release 6 6 6 8 14 (3) (3) (3) (4) (4) (5) (6) (7)	1648222	CPN	66-633-90	19FEB90	*	TED VALUE		* 0.2		166	
ORIN 31-307-37 19-F23-90 (3) (3) (4) (5) (6) (7) (8) (9) (1) (2) (8) (1) (2) (3) (4)	1648235	DRN	07-SEP-69	NOT GIVEN					. 9		
(1) (3) (4) (5) (5) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	1648237	เหล	-01-001-8a	19-FE3-90			162. 2	Ω 	6.	141	
Process No. Report Date Date Received AO7161 14-MAR-90 08-MAR-90 PAGE 3	Θ	©	©	•	©		•	0		•	
					Process No. A07161	Report Date (4-MAR-90	Date Received OB-MAR -90	PAGE	3 DF	4	

Acct. No. 0400063

ARGONNE NATIONÀL LABORATORY ATTN, TIHA BECKER, BUDG EP-203 9700 GOUTH CASS AVENAZ ARGONNS, IL. 60429

Tech Ops
Redon Defection Products
2 Science Road
Gerwood, linois 60425-1586
Telephone (708) 755-7000

Ortector Number	Detector	Starting Date	Ending Date	ă.	Field Data / Comments	وء ي د	Exposure pCIII-days	Avg. Radon Conc pCitt	STD	NO. OF DAYS	
1648260	DRN:	59-225-63	NOT STUEN	NO END DATE PROVIDED	E PROVIDE	Q	346 7		7.0		
1648262	DRN	NOT GIVEN	NOT GIVEN	NO DATES PROVIDED	ROVIDED		112.8		11 3		
1648264	DRM	NCT SIVEN	25-FE3-90	NO START DATE PROVIDED	ATE PROVI	DED	313.8		7.3		
1648275	DRN N	HOT GIVEN	17-FEB-90	ND START DATE PROVIDED CUST. HAS START DATE 10/89 ND DAY DATE	ATE PROVI START DAT	DED E 10/89	28 88 88 88 88 88 88 88 88 88 88 88 88 8		0 8		
1648283	DRN	11-001-69	15-DEC-89				997.2	15.3	ઇ ઇ	9 2	

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0		©	•		·		•	0		•	
				O.C. Release KSR	Process No. A07161	Report Date 14-MAR-90	Date Received 08-MAR-90	PAGE	♣ 0F	4	
				-							

Acct. No. 0400063

ARGONNE NATIONAL LABERATORY ATTN: TINA BECMER: BUDG ER-203 9700 SCHH: CASS KVEHUE ARGONNE: IL: 604.3

Tech/Ops Lendauer, Inc.
Redon Detection Products
2 Science Read
Gerwood, Minois 60425-1586
Telephone (708) 755 7000

						•	⇔
				•			1 0F
Avg. Radon Conc. pCift	1.7				-	Θ	PAGE
Exposure pCi/I days	238 4	123 2	209 1			•	Date Received OB-MAR-90
ients		. 03	9				Report Date 1.4-MAR-90
Field Data / Comments		NO END DATE PROVIDED	NO END DATE PROVIDED			9	Process No A07161
					·		O.C. Release KSR
Ending	22-FEB-90	NOT GIVEN	NOT GIVEN			0	
Starting Date	01-6.1-89	13-38P-84	69-d25-61			€	
Detector Type	DESIM	DENA	DPNA.		·	©	
Detector	1341726	1436003	1436027			Θ	

Acct. No. 0400063

ARGONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60439

Tech/Ops Landauer, Inc.	Radon Detection Products	2 Science Road Glenwood, Minois 60425-1586 Telephone (708) 755-7000
	Tech, Ops	Landauer

		_	
Avg. Radon STD NO. OF Conc. pCull DEV DAYS	1.6	@	PAGE 1 OF 1
DAY Coo			
Exposure pCi/l-days	290. 1	0	Date Received 08-MAR-90
nis.			Report Date 20-MAR-90
Field Data / Comments		•	Process No. A07182
			O.C. Patesse DLH
Ending Date	03-MAR-90	•	
Starting Date	05-SEP-39	9	
Detector	DRN	⊚	
Ortector Number	1644207	Θ	

Acct. No. 0400063

ARGONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60429

Tech Ops Reden Detection Products 2 Science Road Genwood, Minois 60425-1586 Telephone (708) 755-7000

												<u>.</u>				_		
100	Ď,	315	147	184	186	186	182	186	92	65	60	186	184	182	182	182	•	6
PCT	DEV	14.6	9 .0	ų.	4.	E,	6. 1	'n,	. -	4	7.2	6.2	6.9	0.0	4.7	9. 1		1 OF
	Conc pCil	0.2	1.2	€.	B 67	9.3		3.6	15.7	15.6	B. B.	e ci	6.7	3.4	0.0	3.7	Θ	PAGE
	Exposure pCi/f-days	51.0	173. B	618.7	714.5	622. 4	452.6	665.7	1023.3	1016. 1	315. 3	436.3	349.6	701. B	163.6	676. 5	•	Date Received 21-MAR-90
	nents																	Report Date 28-MAR-90
	Field Data / Comments		:		:	49									:		•	Process No. A07358
								• .					•					O.C. Release DLH
	Ending Date	10-MAR-90	07-FEB-90	10-MAR-90	13-MAR-50	13-MAR-90	07-MAR-90	13-MAR-90	13-DEC-89	13-DEC-89	15-DEC-89	12-MAR-90	10-MAR-90	08-MAR-90	10-MAR-90	08-MAR-90	⊚	
	Starting	29-APE-89	13-5EP-89	07-SEP-89	08-SEP-89	08-SEP-89	06-SEP-89	68-SEP-89	11-0CT-89	11-0CT-89	11-SEP-89	07-SEP-89	07-SEP-89	07-SEP-89	09-SEP-89	07-SEP-89	0	
	Defector Type	DRNA	DRNA	DRN	DRN	DRN	DRN	DRN	DRN	DRN	DRN	DRN	DRN	DRN	DRN	DRN	စ	
	Detector	1341788	1436020	1641177	1642301	1642309	1642311	1642315		1643449	1643649	1643441	1643994	1644024	1644331	1645087	Θ	

ARCDNNE NATIONAL LABGRATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60439

Tech Ops Redon Detection Products 2 Science Road Genwood, lifnos 60425-1586 Telephone (708) 755-7000

Acct. No. 0400063

NG. OF DAYS	182	93	92	6	26	26	69	\$9	63	186	186	186	186	186	185	•	w
STD BEV DEV	4						£.4	m •	₩ ₩	6. 1	•		*	R)	12. 5		2 OF
Avg. Radon Conc. pCill	4.9	+ 0.3	* 0.3	÷ 0.3	* O. 3	* 0.3	14. 5	13. 4	15.2	9.	e,	1.3	e,	80 E0	0, 3	0	PAGE
Exposure pCif.days	896. 9	* 30.0	• 30.0	* 30.0	* 30.0	* 30.0	945.7	873. 4	934. 7	449.0	1090.2	243.0	924.0	649.4	85.9	•	Date Received
ments		LESS THAN INDICATED VALUE	INDICATED VALUE	INDICATED VALUE	INDICATED VALUE	THAN INDICATED VALUE											Report Date
Field Data / Comments		S THAN INDI	THAN	THAN	THAN											©	Process No.
		* - LES	+ - LESS	* - LESS	* - LESS	* - LESS		: '									O.C. Release
Ending Date	08-MAR-90	11-DEC-89	11-DEC-89	11-DEC-89	11-DEC-89	11-DEC-89	13-DEC-89	15-DEC-89	13-DEC-89	13-MAR-90	13-MAR-90	13-MAR-90	13-MAR-90	13-MAR-90	13-HAR-90	0	
Starting Date	07-SEP-89	10-SEP-89	10-SEP-89	10-SEP-89	10-SEP-89	10-SEP-89	11-0CT-89	11-0CT-89	11-0CT-89	08-SEP-89	08-SEP-89	08-3EP-89	08-SEP-89	08-SEP-89	09-SEP-89	€	
Detector Type	DRN	DRN	DRN	DRN	DRN	DRN	DRN	DRN	DRN	DRN	DRN	DRN	DRN	DRN	N. W.	0	
Detector	1645092	1645683	1645684	1645686	1645701	1645702	1645924	1646033	1646041	1646043	1646469	1646466	1646468	1646471	1647480	1	

Acct. No. 0400063

ARGONNE NATIONAL LABORATORY ATTN: TINA BECKER, BLDG ER-203 9700 SOUTH CASS AVENUE ARGONNE, IL 60439

Tech Ops Redon Detection Products 2 Science Road Genwood, lknois 60425-1586 Telephone (708) 755-7000

	<u> </u>					_					 	 	 ٦		
NO. OF DAYS	186	186	186	186	186	186	186	186					•)	B
PCT STD DEV	5.7	7.6	₹.0	. .	so so	6. 1	o ń	a) A							3 OF
Avg Radon Conc pCill	2.8	5	3. 4	3.1	3.0	у. 4	8	3.2		`-			 <u></u>)	PAOE
Exposure pCill days	517.6	281.0	718.1	580.8	559. 1	449.0	700.0	586. 2			,				Date Received 21 -MAR-90
nents									. •						Report Date 28-MAR-90
Field Data , Comments								٠					•	9	Process No.
					<u>.</u>										O.C. Release DLH
Ending Date	13-MAR-90	13-MAR-90	13-MAR-90	13-MAR-90	13-MAR-90	13-MAR-90	13-MAR-90	13-MAR-90			 ****		-	⊙	
Starting Date	08-5EP-89	08-SEP-89	08-5EP-89	08-5EP-89	08-SEP-89	08-SEP-89	08-SEP-89	08-SEP-89						©	
Detector Type	DRN	DRN	DRN		DRN									Θ	
Detector	1648231		1648236	1648238	1648240							-		Θ	

NOTICE

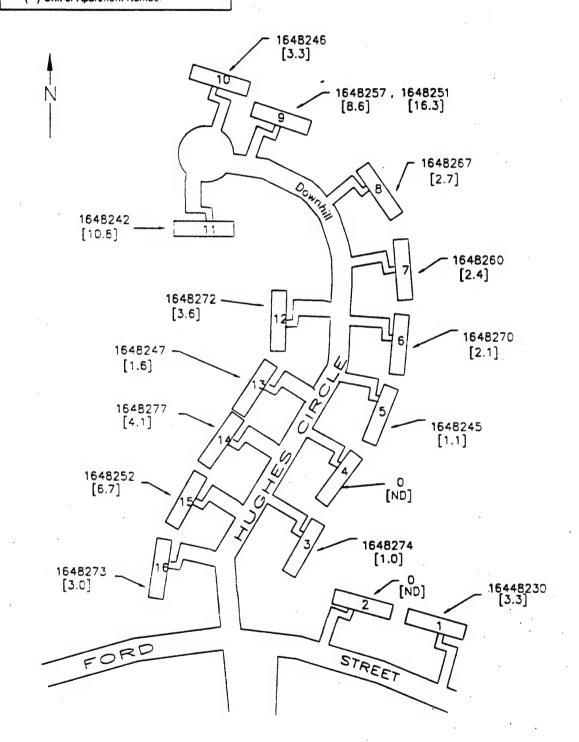
Standard deviation values for six detectors analyzed by Tech/Ops Landauer do not appear in the preceding report sheets. However, those standard deviation values were reported by telephone by Tech/Ops Landauer to Argonne personnel on April 3, 1990. Those verbally reported standard deviations are tabulated below. They also have been inserted into the appropriate tables of Appendix F.

Detector Number	Percent Standard Deviation
1647020	8.2
1647025	7.4
1647028	6.5
1647032	8.0
1647033	7.3
1647034	9.9

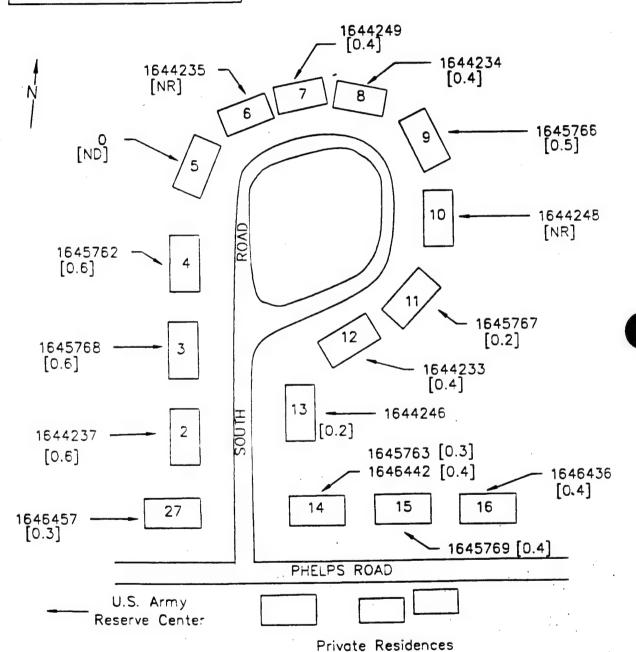
Appendix I

Graphic Display of Results for Each Monitored Property

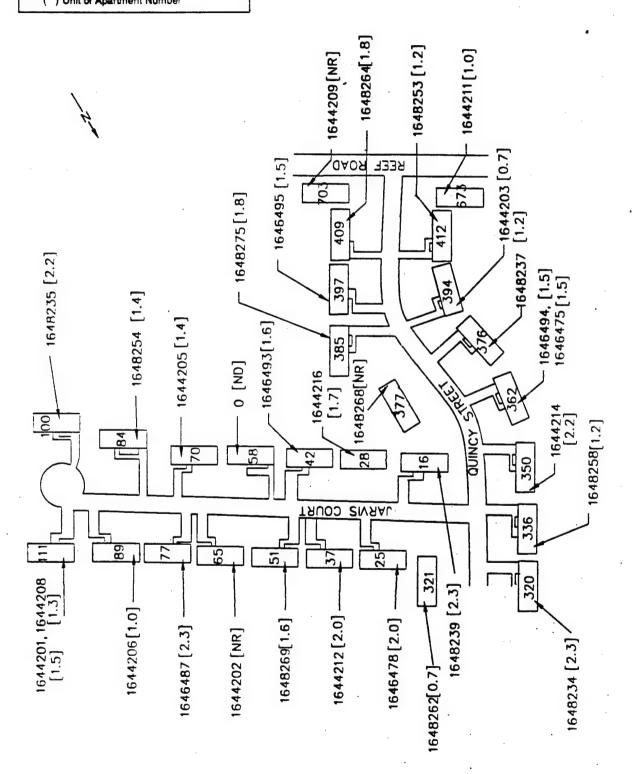
Ansonia Army Housing Ansonia, Connecticut Indoor Radon Concentrations



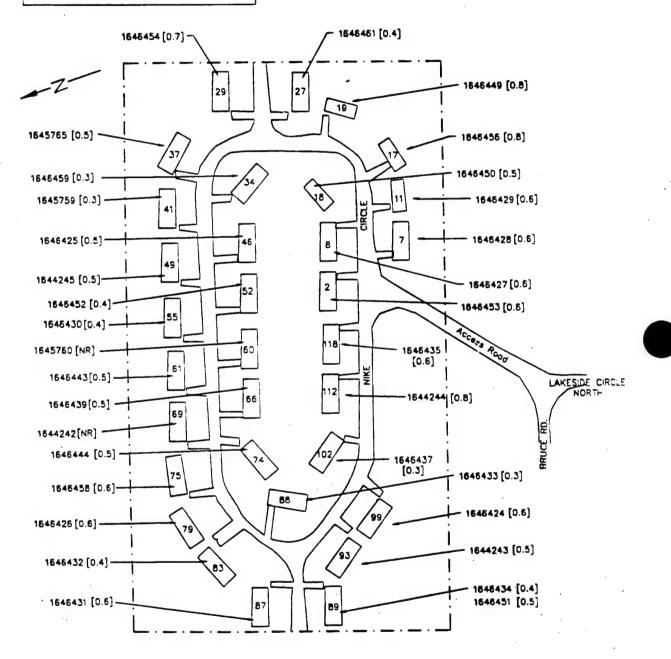
East Windsor Army Housing East Windsor, Connecticut Indoor Radon Concentrations



Fairfield Army Housing Fairfield, Connecticut Indoor Radon Concentrations



Manchester Army Housing Manchester, Connecticut Indoor Radon Concentrations

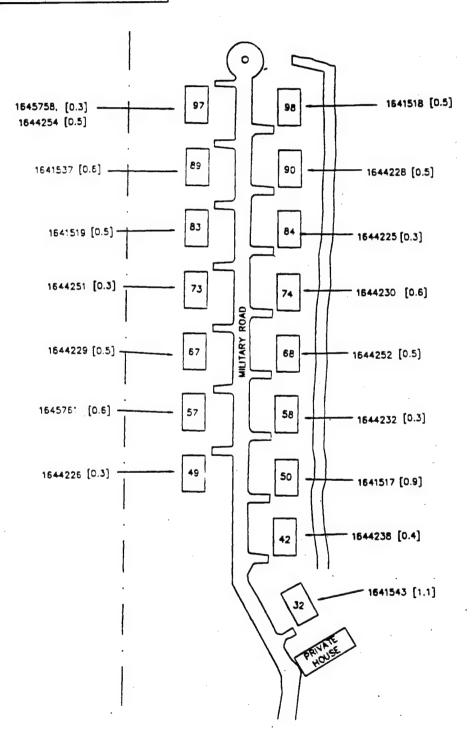


1

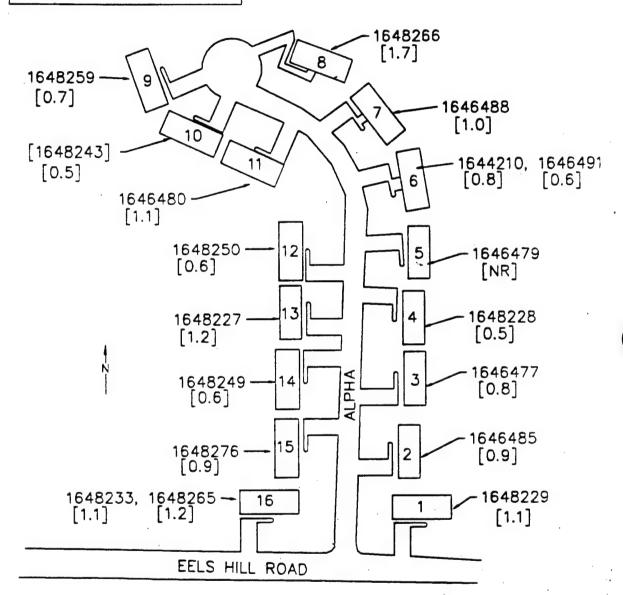
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4

Middletown Army Housing Middletown, Connecticut Indoor Radon Concentrations



Milford Army Housing Milford, Connecticut Indoor Radon Concentrations



RESIDENTIAL

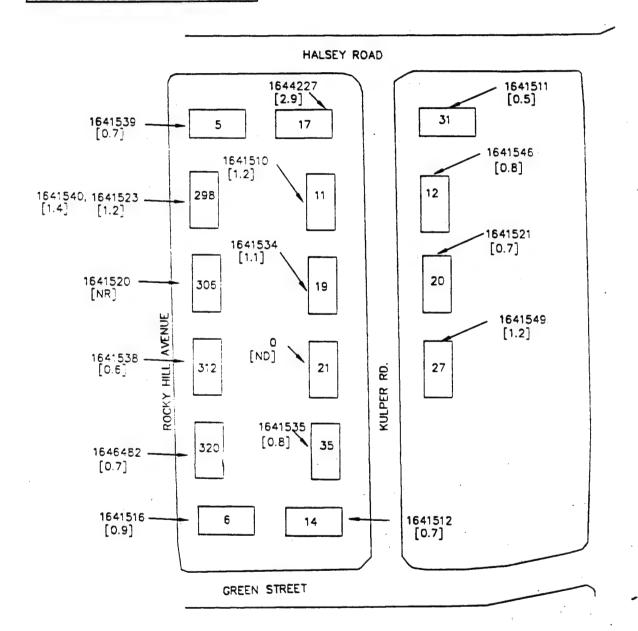
KEY

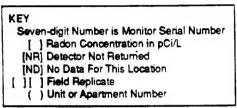
Seven-digit Number is Monitor Serial Number

[] Radon Concentration in pCi/L [NR] Detector Not Returned

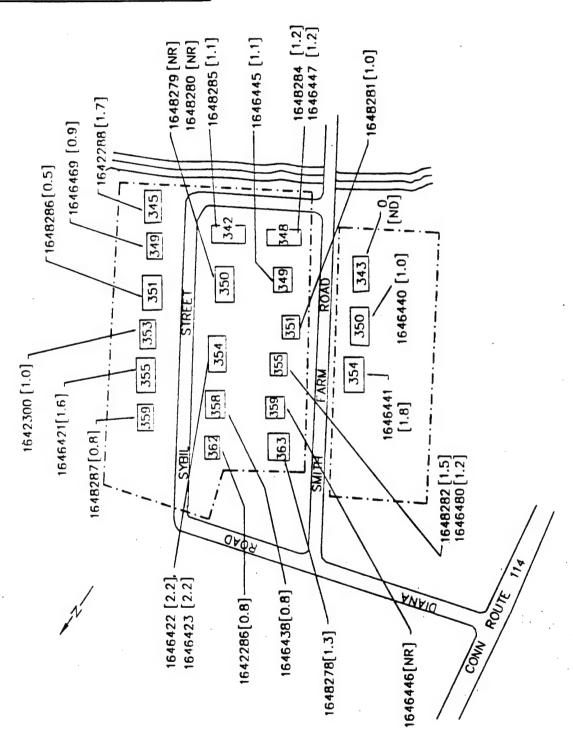
[ND] No Data For This Location
[][] Field Replicate
 () Unit or Apartment Number

New Britain Army Housing New Britain, Connecticut **Indoor Radon Concentrations**

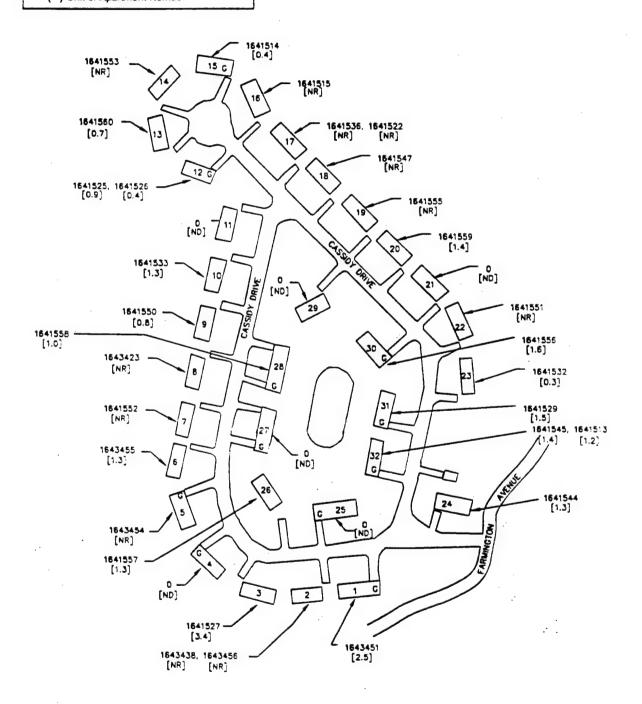




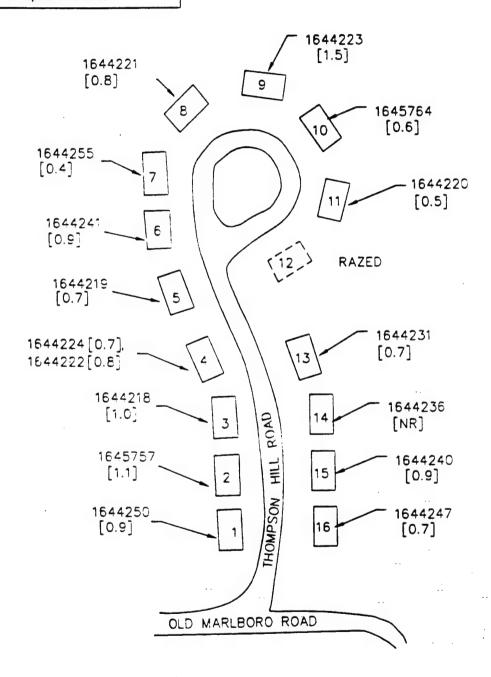
Orange Army Housing Orange, Connecticut Indoor Radon Concentrations



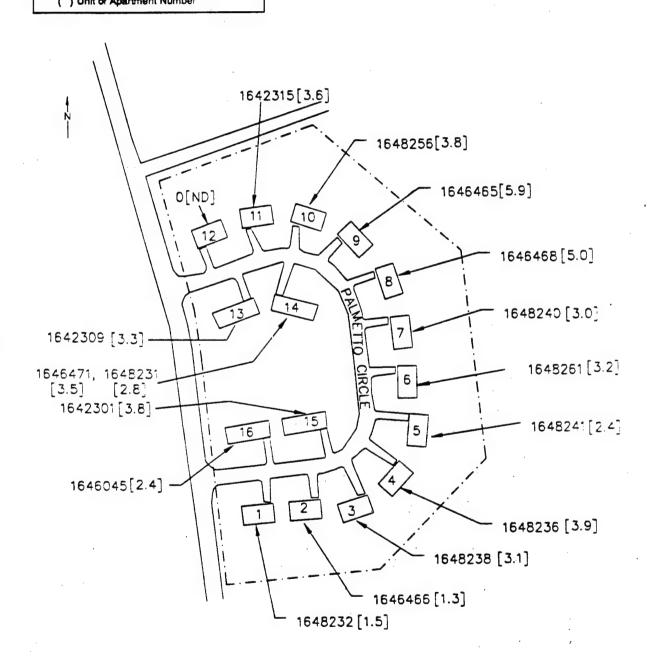
Plainville Army Housing Plainville, Connecticut Indoor Radon Concentrations



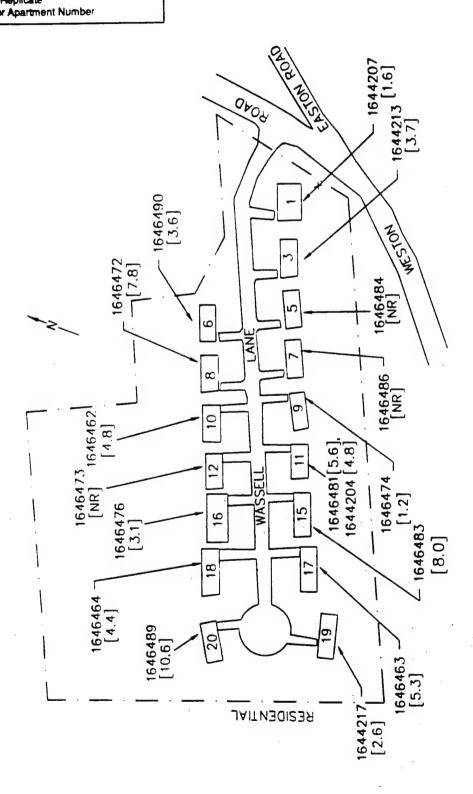
Portland Army Housing Portland, Connecticut Indoor Radon Concentrations



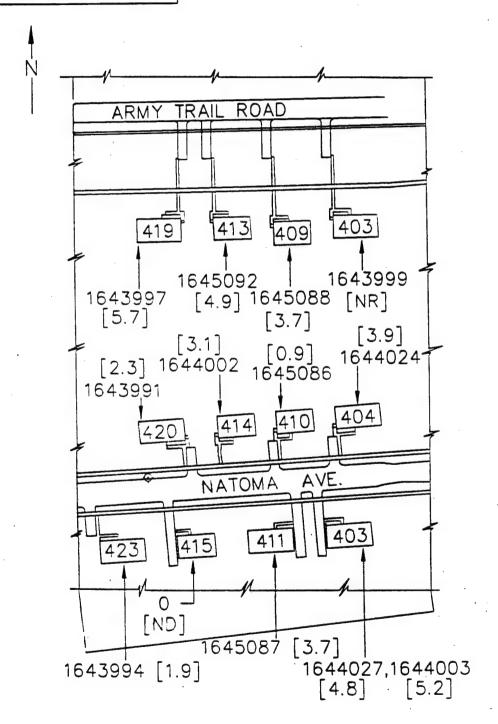
Shelton Army Housing Shelton, Connecticut Indoor Radon Concentrations



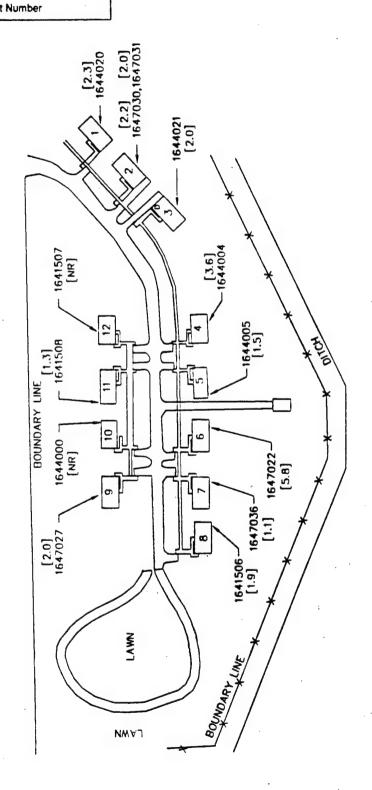
Westport Army Housing
Westport, Connecticut
Indoor Radon Concentrations



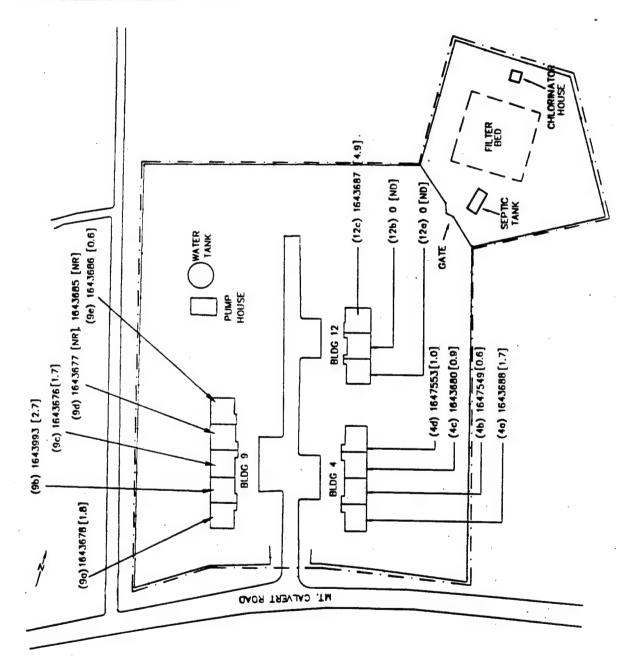
Addison Army Housing Addison, Illinois Indoor Radon Concentrations



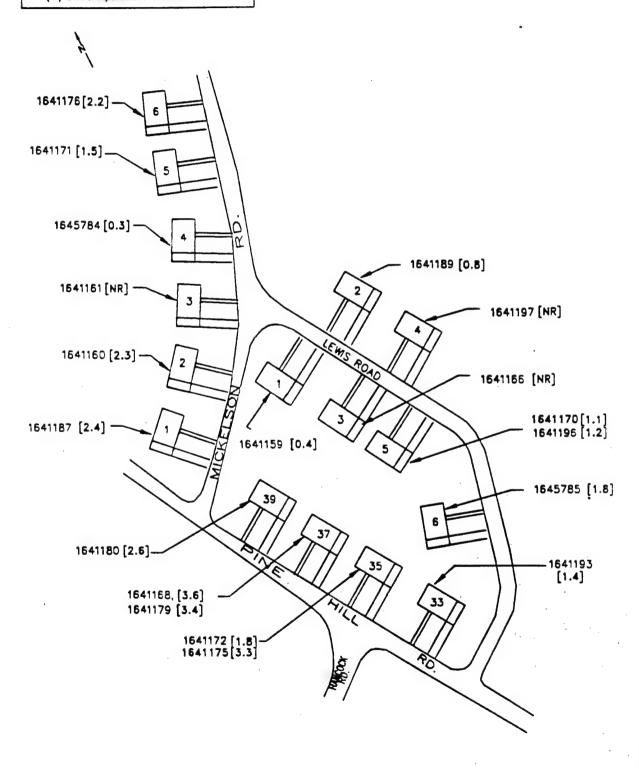
 Worth Army Housing
Worth, Illinois
Indoor Radon Concentrations

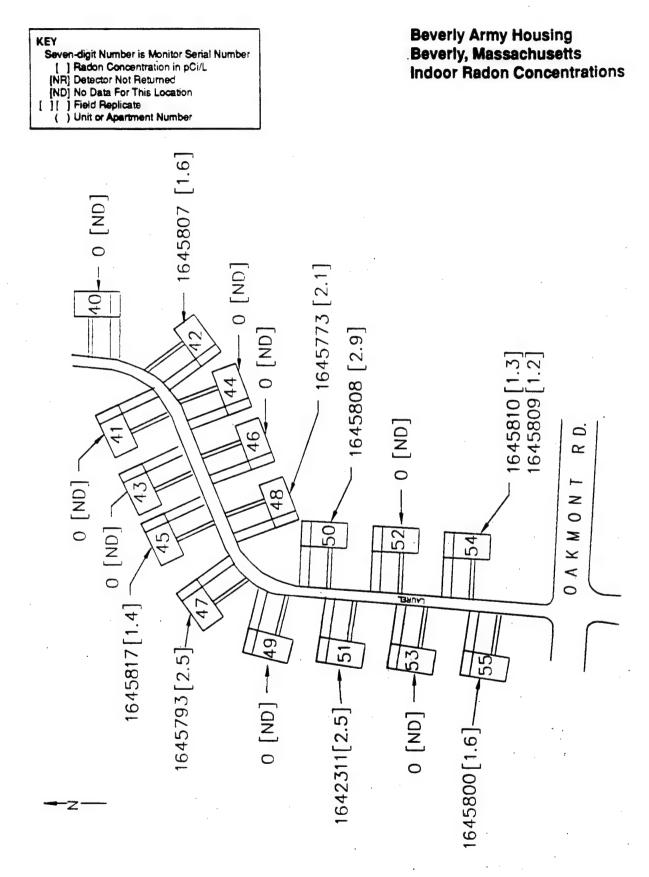


Croom Army Housing Croom, Maryland Indoor Radon Concentrations

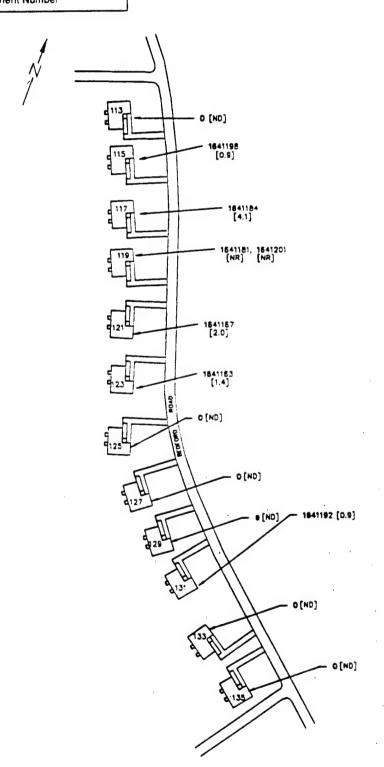


Bedford Army Housing Bedford, Massachusetts Indoor Radon Concentrations

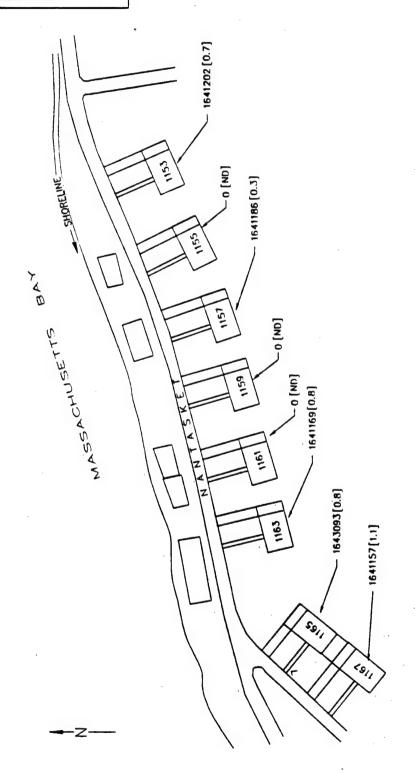




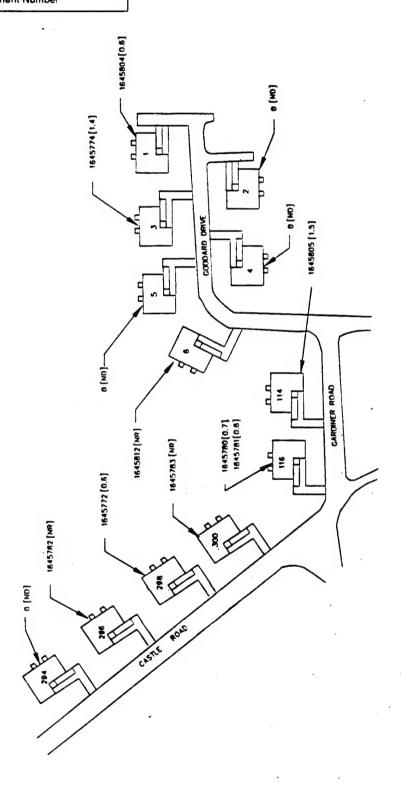
Burlington Army Housing Burlington, Massachusetts Indoor Radon Concentrations



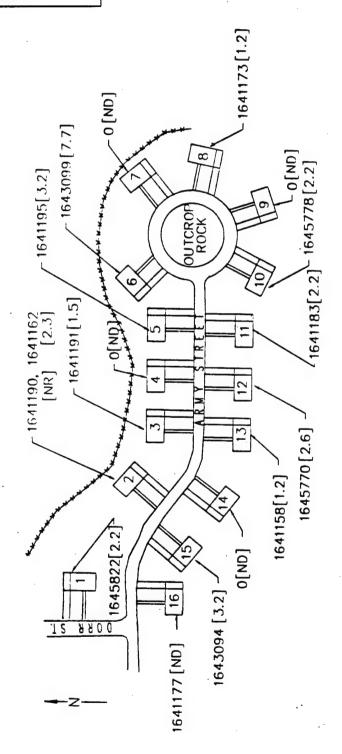
Hull Army Housing
Hull, Massachusetts
Indoor Radon Concentrations



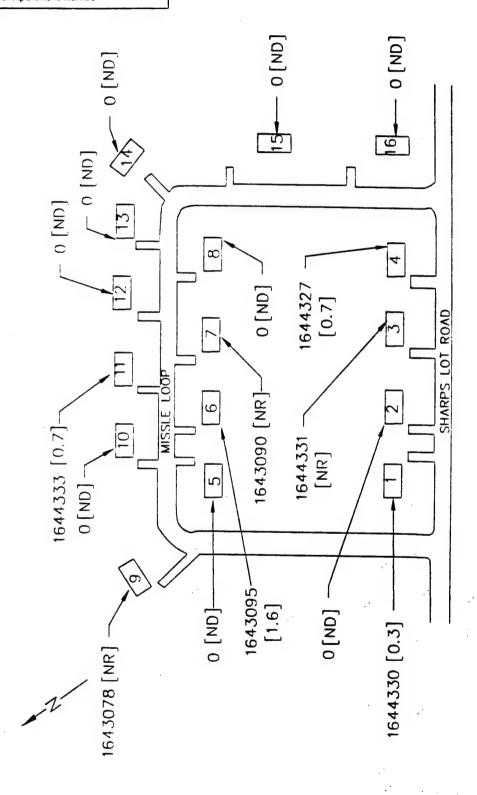
Nahant Army Housing Nahant, Massachusetts Indoor Radon Concentrations



Randolph Army Housing Randolph, Massachusetts **Indoor Radon Concentrations**

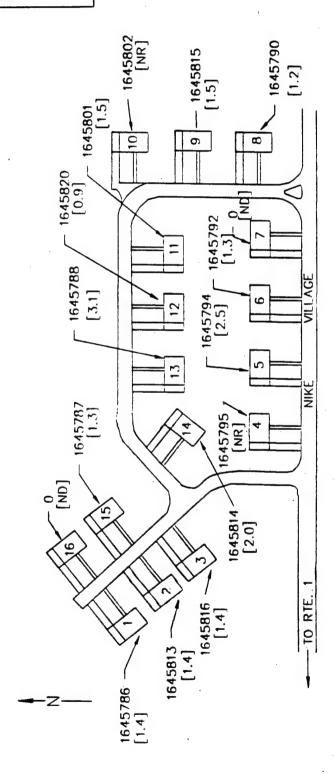


Swansea Army Housing Swansea, Massachusetts Indoor Radon Concentrations

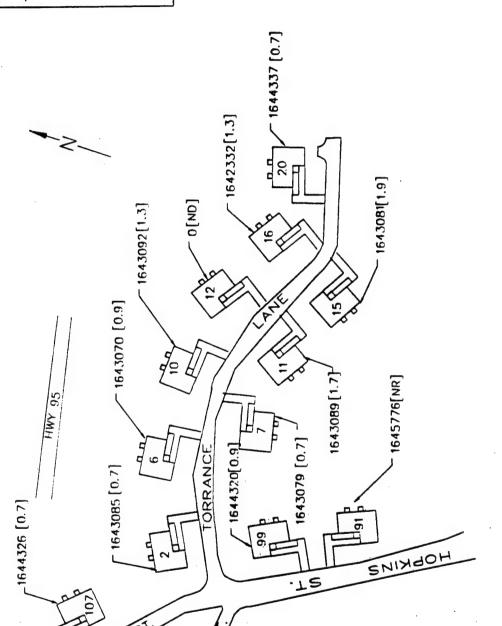


() Unit or Apartment Number

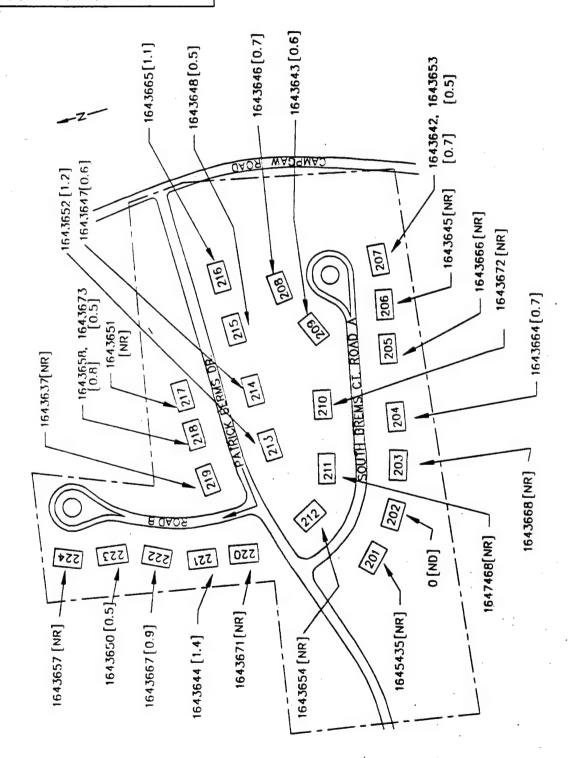
Topsfield Army Housing Topsfield, Massachusetts Indoor Radon Concentrations



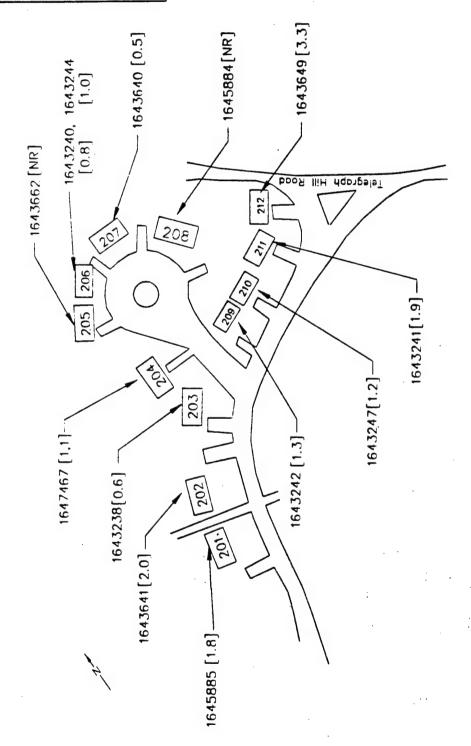
Wakefield Army Housing Wakefield, Massachusetts **Indoor Radon Concentrations**



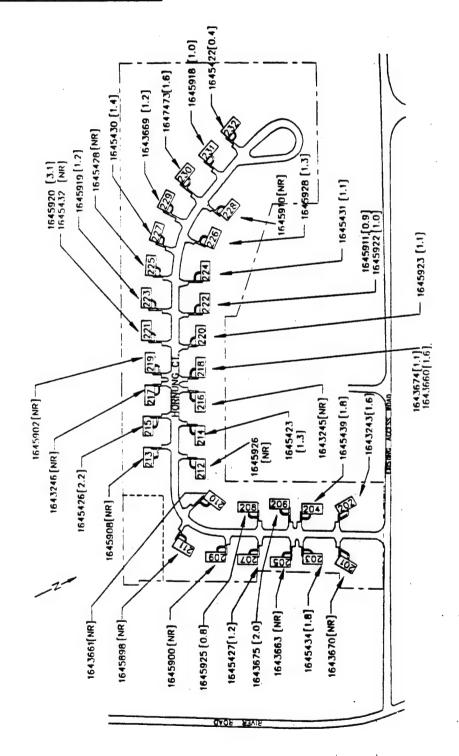
Franklin Lakes Army Housing Franklin Lakes, New Jersey Indoor Radon Concentrations



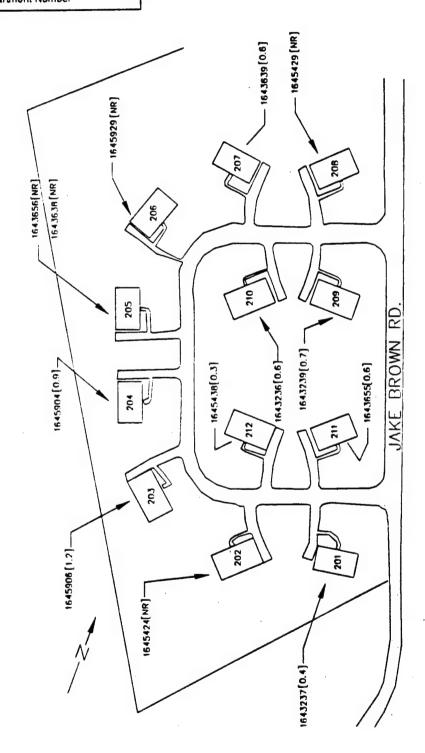
Holmdel Army Housing Holmdel, New Jersey Indoor Radon Concentrations



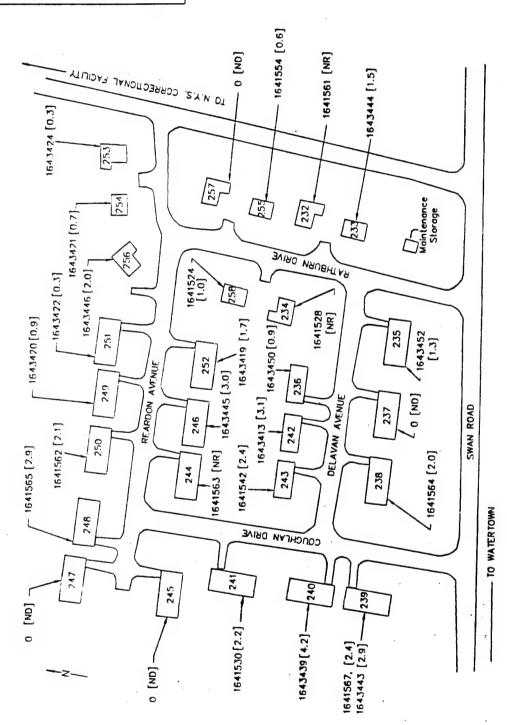
Livingston Army Housing East Hanover Twp, New Jersey Indoor Radon Concentrations



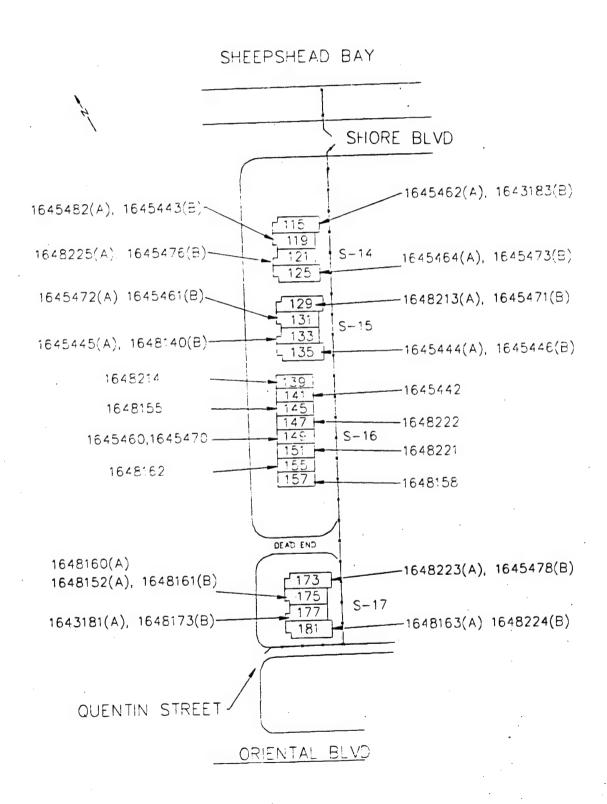
Old Bridge Army Housing Old Bridge, New Jersey Indoor Radon Concentrations



Dry Hill Army Housing Watertown, New York Indoor Radon Concentrations

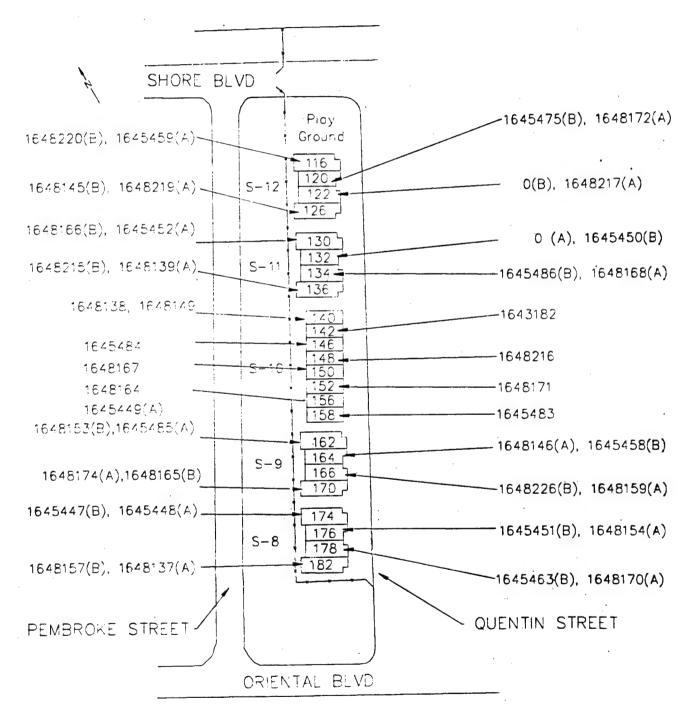


Manhattan Beach Army Housing Brooklyn, New York Indoor Radon Concentrations

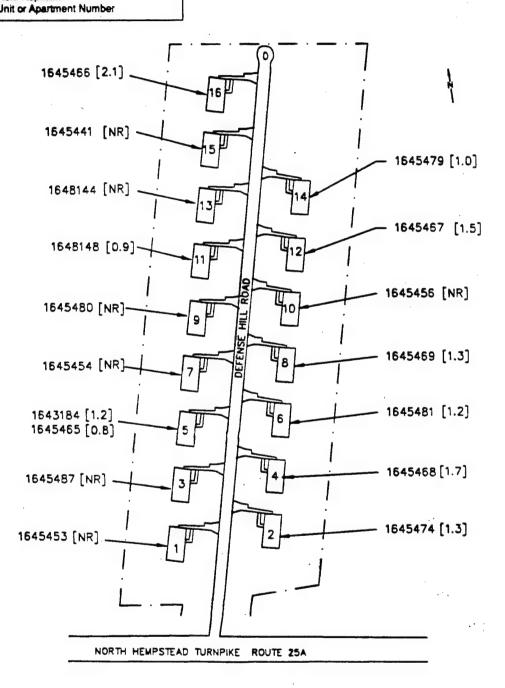


() Unit or Apartment Number

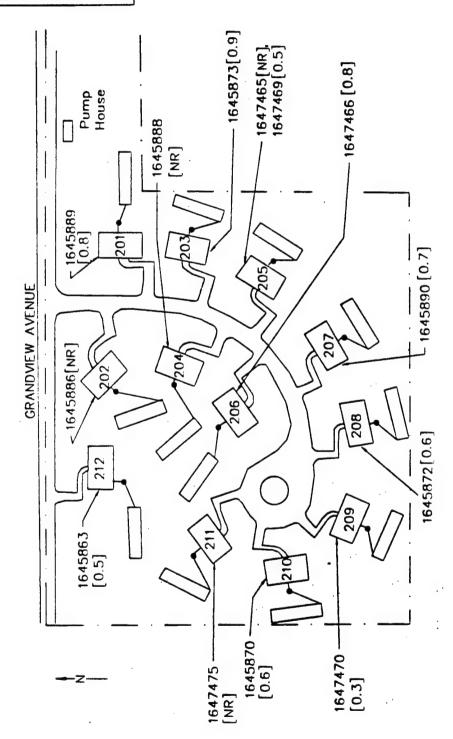
SHEEPSHEAD BAY



Rocky Point Army Housing Rocky Point, New York Indoor Radon Concentrations

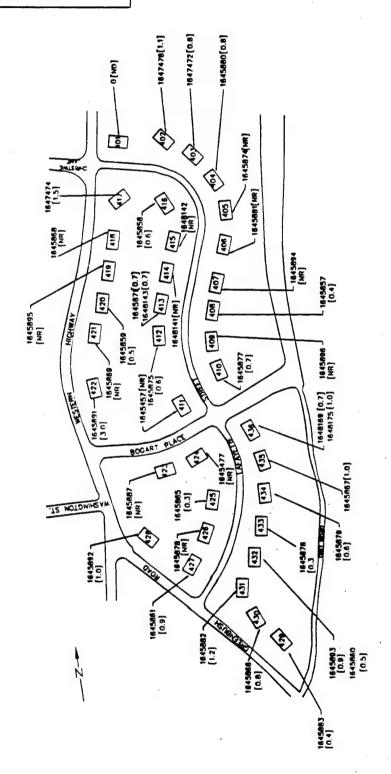


Spring Valley Army Housing Ramapo, New York Indoor Radon Concentrations

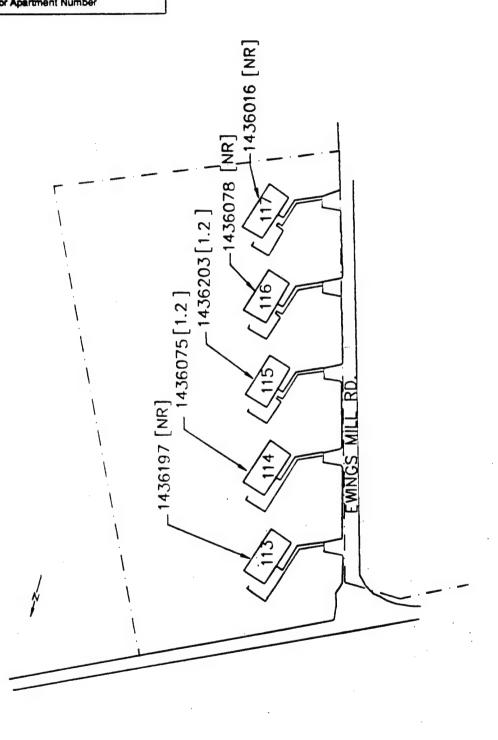


Seven-digit Number is Monitor Serial Number
[] Radon Concentration in pCi/L
[NR] Detector Not Returned
[ND] No Data For This Location

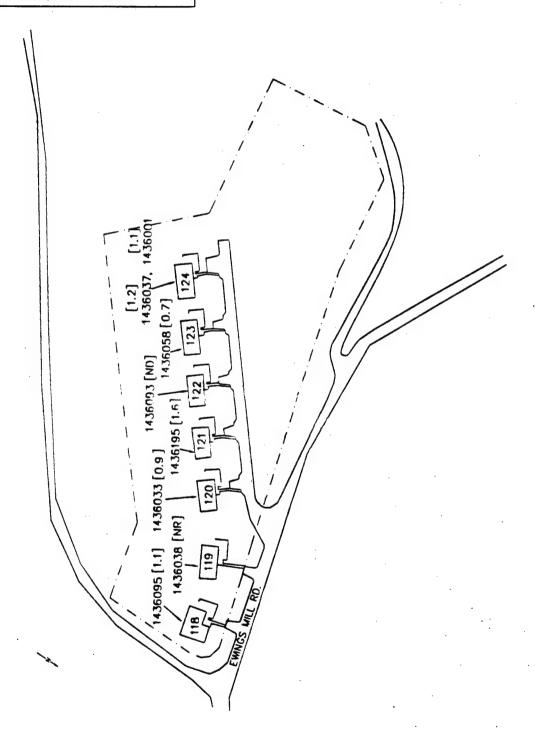
Tappan Army Housing Tappan, New York Indoor Radon Concentrations



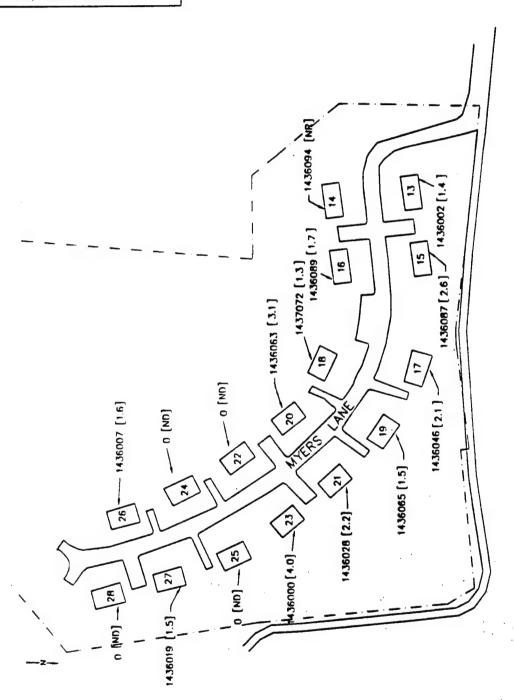
Coraopolis 71C Army Housing Robinson Twp, Pennsylvania Indoor Radon Concentrations

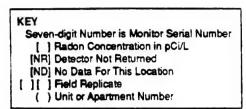


Coraopolis 71L Army Housing Moon Twp, Pennsylvania Indoor Radon Concentrations

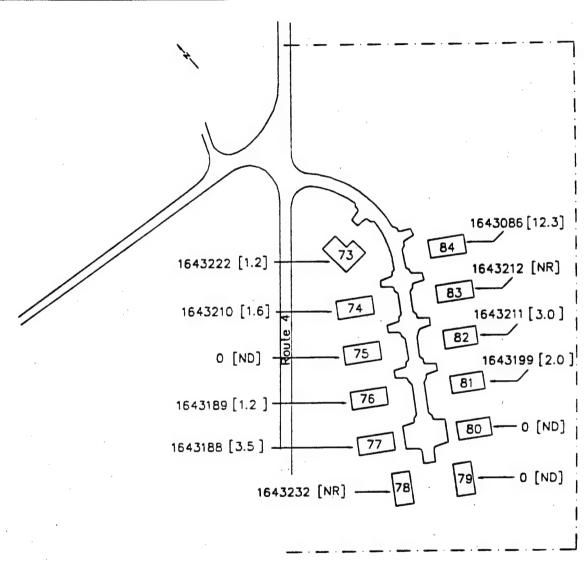


Dorseyville Army Housing Dorseyville, Pennsylvania Indoor Radon Concentrations

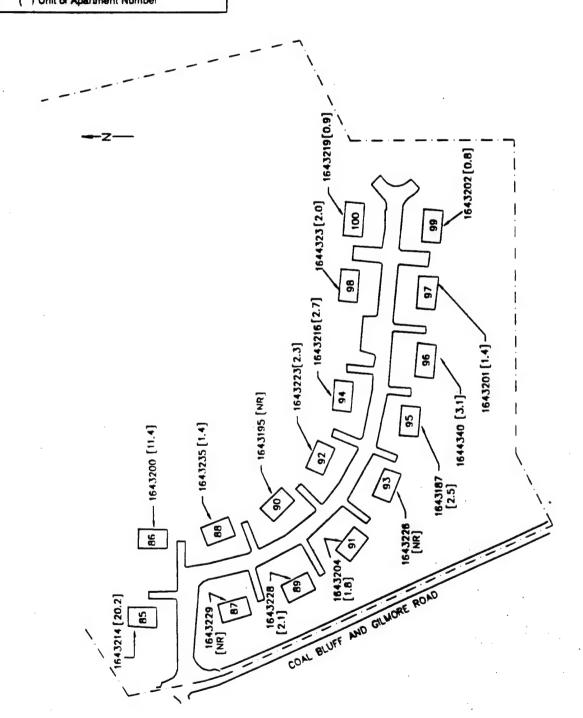




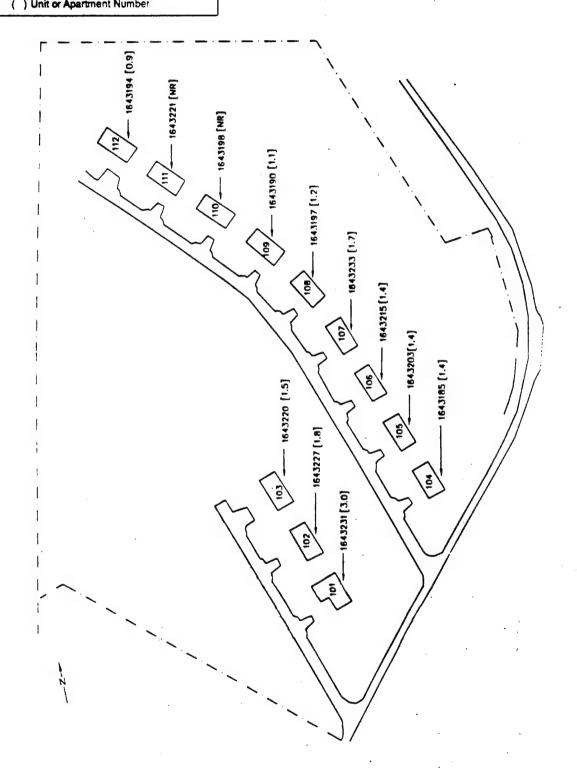
Elizabeth Army Housing Elizabeth, Pennsylvania Indoor Radon Concentrations



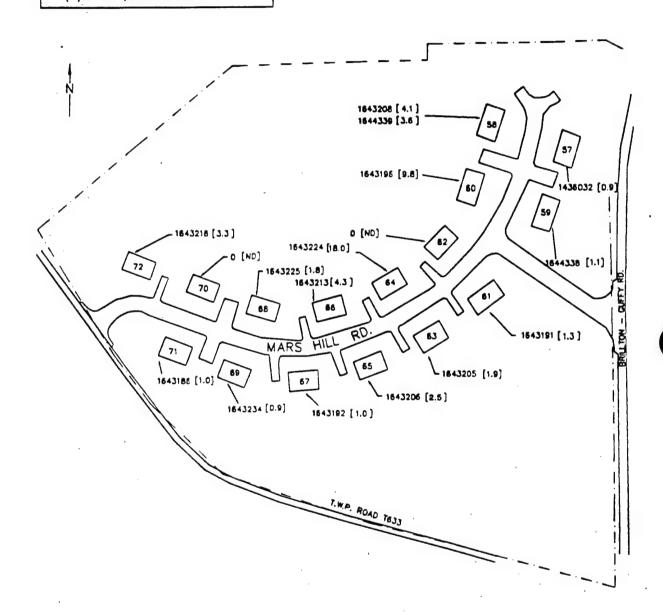
Eirama Army Housing Eirama, Pennsylvania Indoor Radon Concentrations



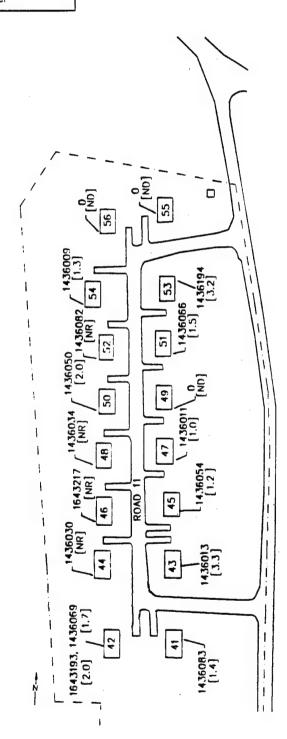
Finleyville Army Housing Finleyville, Pennsylvania Indoor Radon Concentrations



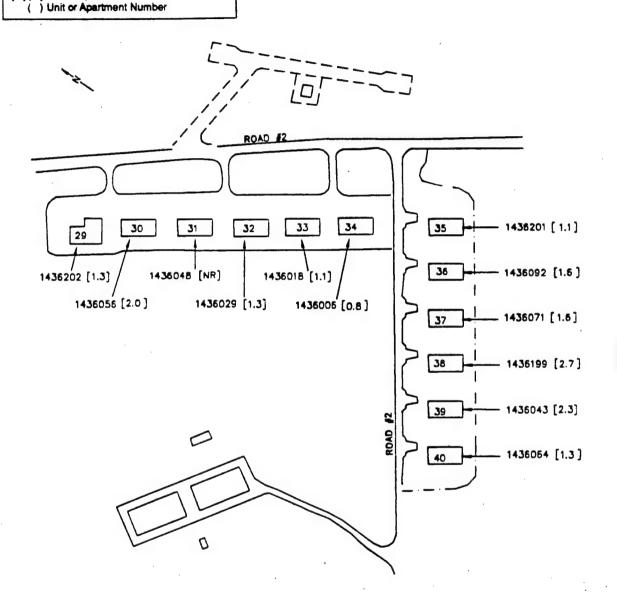
Herminie Army Housing Herminie, Pennsylvania Indoor Radon Concentrations



Irwin Army Housing Irwin, Pennsylvania
Indoor Radon Concentrations



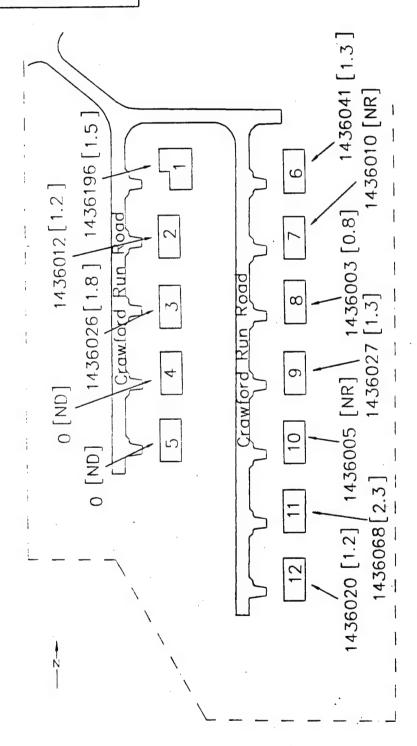
Monroeville Army Housing Monroeville, Pennsylvania Indoor Radon Concentrations

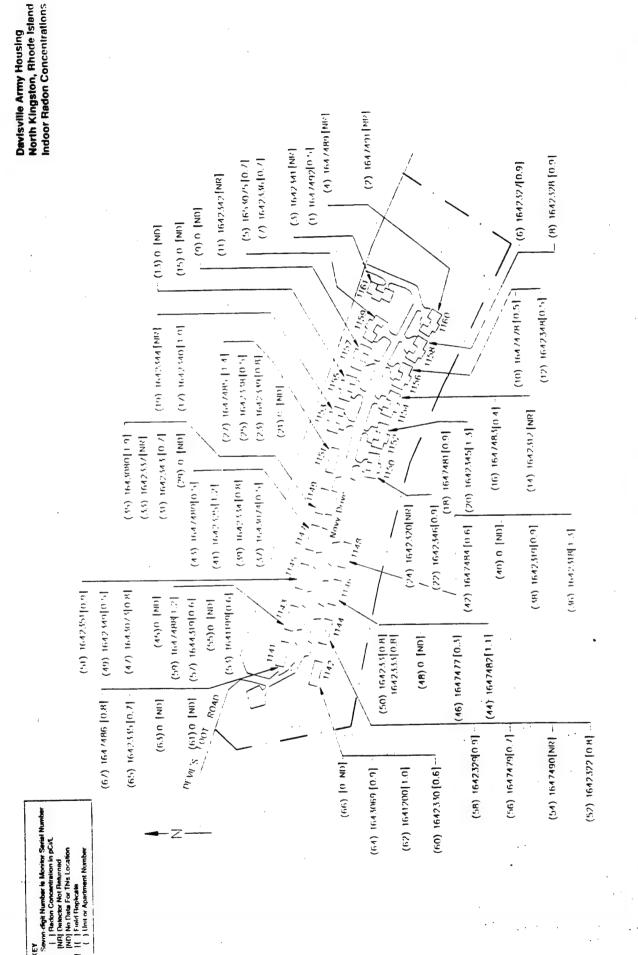


KEY

Seven-digit Number is Monitor Serial Number
[] Radon Concentration in pCi/L
[NR] Detector Not Returned
[ND] No Data For This Location

Rural Ridge Army Housing Rural Ridge, Pennsylvania Indoor Radon Concentrations





Appendix J

Variances in Replicate
Detector Pair Results

Appendix J:

Variances in Replicate Detector Pair Results^a

		•	Percent Deviation
Property	Detector	Exposure [(pCi/L) days]	from Mean (for pair)
Ansonia, Conn.	1648257 1648251	1064.7 2016.6	30.9
East Windsor, Conn.	1646442 1645763	38.2 30.0	12.0
Fairfield, Conn.	1644201 1644208	231.7 198.2	7.8
Fairfield, Conn.	1646475 1646494	152.2 152.2	0.0
Manchester, Conn.	1646434 1646451	43.5 61.0	16.7
Middletown, Conn.	1645758 1644254	30.0 43.5	18.4
Milford, Conn.	1644210 1646491	96.1 78.5	10.1
Milford, Conn.	1648233 1648265	99.6 108.3	4.2
New Britain, Conn.	1641540 1641523	207.5 188.9	4.7
Orange, Conn.	1648280 1648279	NR ^b NR	·
Orange, Conn.	1646422 1646423	200.1 199.5	0.2
Orange, Conn.	1648284 1646447	114.3 115.4	0.5
Orange, Conn.	1648282 1646480	66.3 103.1	_c
Plainville, Conn.	1643438 1643456	NR NR	
Plainville, Conn.	1641525 1641526	87.3 40.0	37.2

Property	Detector	Exposure [(pCi/L) days]	Percent Deviation from Mean (for pair)
Plainville, Conn.	1641536 1641522	NR NR	
Plainville, Conn.	1641545 1641513	127.4 113.6	5.7
Portland, Conn.	1644222 1644224	73.3 68.0	3.8
Shelton, Conn.	1646471 1648231	649.4 517.6	11.3
Westport, Conn.	1646481 1644204	576.3 495.6	7.5
Addison, III.	1644027 1644003	5 93.8 6 35.9	3.4
Worth, III.	1647030 1647031	204.7 185.5	4.9
Croom, Md.	1643685 1643677	NR NR	
Bedford, Mass.	1641196 1641170	129.3 116.2	5.3
Bedford, Mass.	1641172 1641175	205.7 167.9	10.1
Bedford, Mass.	1641168 1641179	418.5 376.5	5.3
Beverly, Mass.	1645810 1645809	129.4 124.1	2.1
Burlington, Mass.	1641181 1641201	NR NR	
Nahant, Mass.	1645781 1645780	55.8 66.3	8.6
Randolph, Mass.	1641190 1641162	NR 313.4	
East Hanover, N.J.	1643674 1643660	157.2 229.9	18.8
East Hanover, N.J.	1645432 1645920	NR 302.9	

Property	Detector	Exposure [(pCi/L) days]	Percent Deviation from Mean (for pair)
East Hanover, N.J.	1645922 1645911	120.6 108.8	5.1
Franklin Lakes, N.J.	1 643 658 1 643 673	104.8 64.5	23.8
Franklin Lakes, N.J.	1643642 1643653	64.5 48.8	14.6
Holmdel, N.J.	1643240 1643244	75.2 103.1	15.6
Old Bridge, N.J.	1643638 1643656	NR NR	
Brooklyn, N.Y.	1648138 1648149	47.3 30.0	22.4
Brooklyn, N.Y.`	1645485 1645449	NR NR	
Brooklyn, N.Y.	1645470 1645460	NR NR	
Brooklyn, N.Y.	1648152 1648160	NR NR	
Rocky Point, N.Y.	1643184 1645465	108.3 73.3	19.3
Spring Valley, N.Y.	1647465 1647469	NR 47.0	
Tappan, N.Y.	1645871 1648143	82.1 89.1	4.1
Tappan, N.Y.	1645893 1645860	8 6.4 5 5.8	21.5
Tappan, N.Y.	1648169 1648175	62.8 97.8	21.8
Watertown, N.Y.	1641567 1643443	94.3 113.6	9.3
Coraopolis, Penn. (Robinson Twp.)	1436037 1436001	120.8 109.8	4.8
Herminie, Penn.	1643208 1644339	375.2 324.9	7.2

Property	Detector	Exposure [(pCi/L) days]	Percent Deviation from Mean (for pair)
Irwin, Penn.	1436069 1643193	154.3 178.4	7.2
North Kingston, R.I.	1642331 1642333	76.8 6 9.8	4.8
Slatersville, R.I.	1643097 1643098	187.2 259.7	16.2
Slatersville, R.I.	1643084 1643077	246.8 255.6	1.8
Slatersville, R.I.	1645777 1641185	1031 86.4	8.8
Manassas, Va.	1643681 1643689	108.8 75.0	18.4
Newport News, Va.	1647558 1647561	189.8 209.7	5.0
Woodbridge, Va.	1647566 1643690	123.7 138.6	5.0
Kent, Wash.	1645126 1645139	78.5 64.5	9.8
Kent, Wash.	1644016 1644015	66.3 76.8	7.3
Renton, Wash.	1645133 1645103	NR NR	
Renton, Wash.	1644011 1644014	80.3 30.0	45.6.
Renton, Wash.	1645121 1645100	59.3 71.5	9.3
Sun Prairie, Wisc.	1647585 1643122	222.3 201.2	5.0
Sun Prairie, Wisc.	1643121 1644108	265.3 206.5	12.5
Sun Prairie, Wisc.	1647011 1643130	434.3 323.9	. 14.6
Sun Prairie, Wisc.	1646986 1647016	431.1 387.0	5.4

Property	Detector	Exposure [(pCi/L) days]	Percent Deviation from Mean (for pair)
Sun Prairie, Wisc.	1646998 1646995	106.9 104.8	1.0
Sun Prairie, Wisc.	1643128 1646987	236.3 267.1	6.1
Sun Prairie, Wisc.	1643995 1644025	598.8 530.7	6.0
Sun Prairie, Wisc.	1643111 1643110	306.4 311.6	8.0

aSummary:

Average of the mean deviations: $10.7 \pm 9.2\%$ (at two sigma

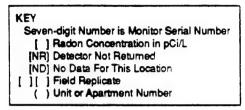
level of confidence)

Maximum mean deviation: 45.6% Minimum mean deviation: 0.0%

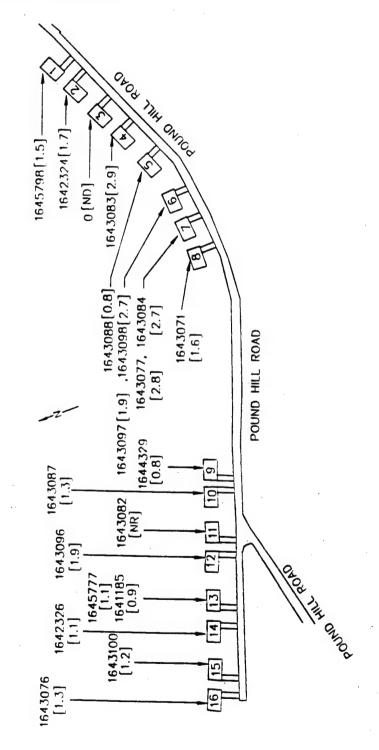
Number of replicate pairs in calculation: 56
Total number of replicate pairs deployed: 70

bNR, detector not returned for analysis.

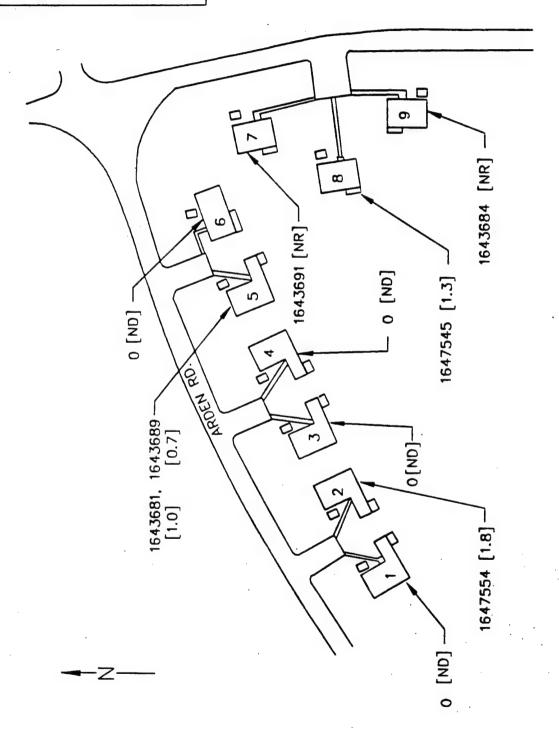
^cOf this replicate pair, one detector was deployed for less than 90 days and the other for a different time period, thus invalidating a calculation of this type.



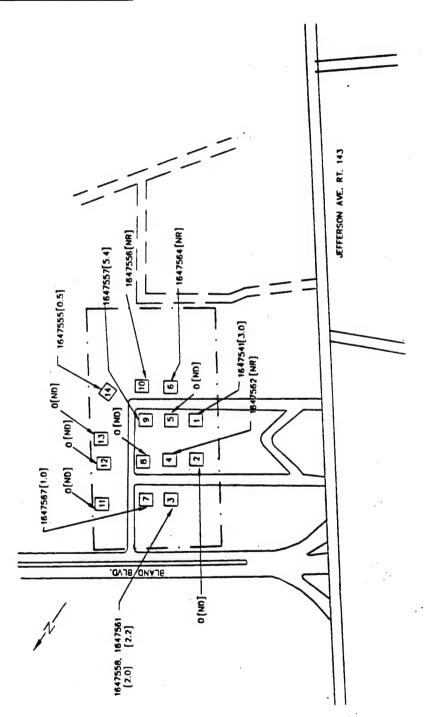
Slatersville Army Housing North Smithfield, Rhode Island Indoor Radon Concentrations

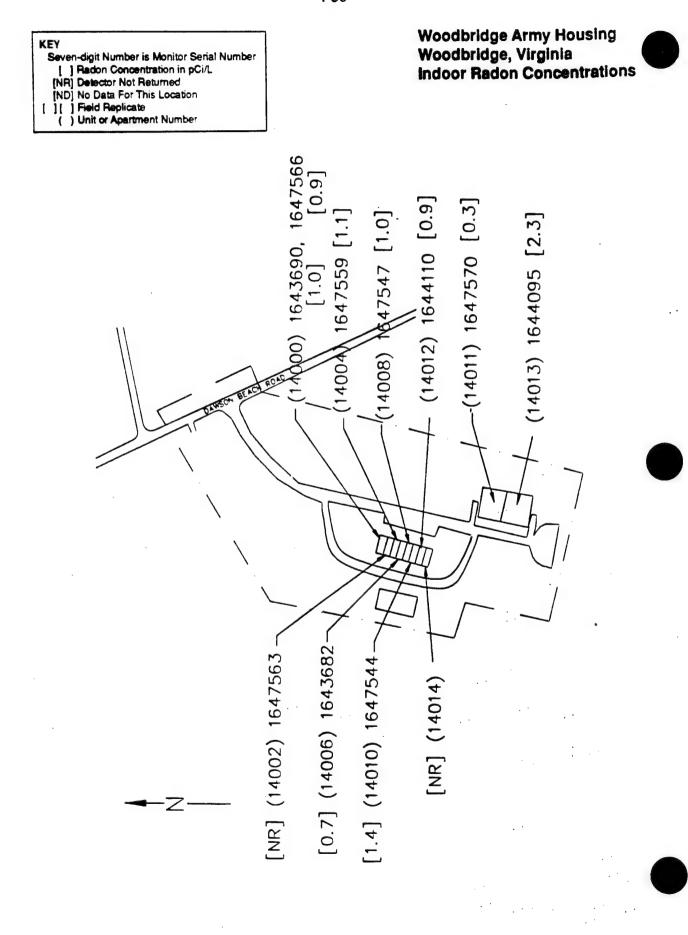


Manassas Army Housing Manassas, Virginia Indoor Radon Concentrations



Patrick Henry Army Housing Newport News, Virginia Indoor Radon Concentrations





Seven-digit Number is Monitor Serial Number

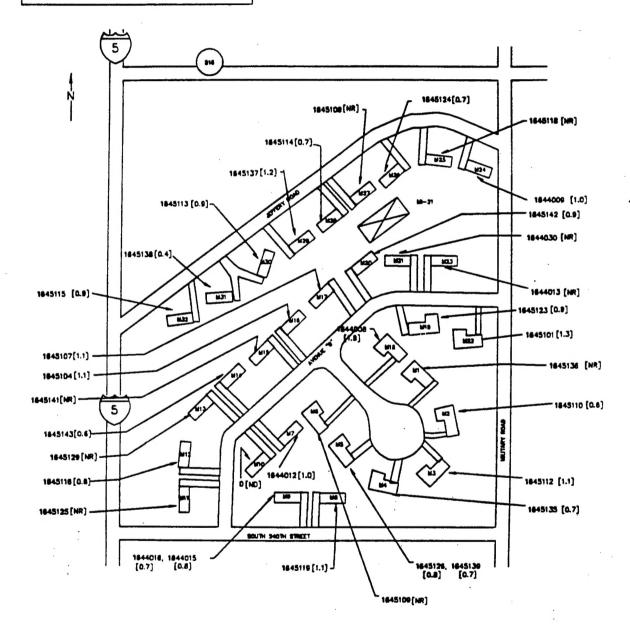
[] Radon Concentration in pCi/L [NR] Detector Not Returned

[ND] No Data For This Location

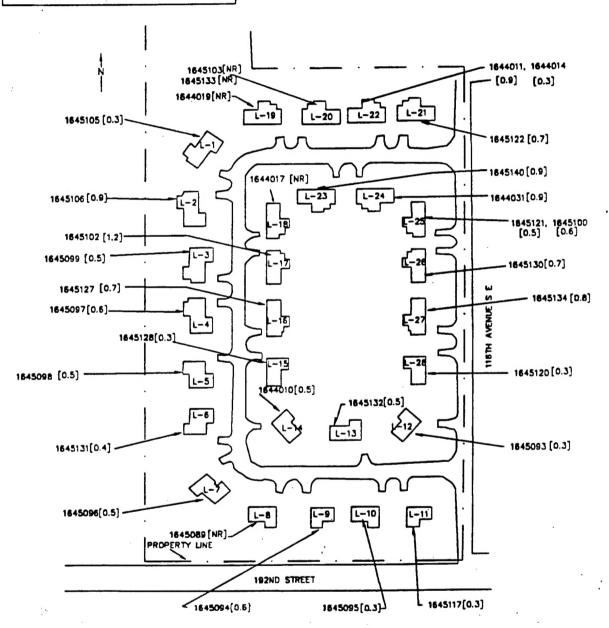
[] [] Field Replicate

() Unit or Apartment Number

Midway Army Housing Kent, Washington **Indoor Radon Concentrations**



Youngs Lake Army Housing Renton, Washington Indoor Radon Concentrations



Indoor Radon Concentrations (1101) 184 MUR [NO] (1002) 164 2002 [1...] (1018) 164 /01 1/4 1/ (1102) 164 2014 (2 1) (1017) 164 2001 [17.4] Sun Prairie Army Housing (1110)16.5 10.7 17.41 (1010) 1647-460 (1141) [806] 164 8001 [2.0] (1000) 164 7025 [15] (1002) 164 2001 (3.4) (1001) 164 2012 [4 9] (R14)1642024 [1 6] Sun Prairie, Wisconsin (1001) 1647011 [4 R] 116731 to [3.6] (R 10) 164 JOIR | 2 2] (622) 164 11 11 (10) (902) 16469A6 [4 A] (910) 1647017[4.7] Ī 3 (918) 1641'-01 [15] [426] 164 2020 [2 6] 127 . (1110)1647032 [2.9] (1118)16439RR[3.5] (1102) 1643990[7.3] 127 1101) 164,3109 [4.8] CHIMANN (1100)1647015[3.8] 125 Time (1111) 164 MIDE 51 1179) 1645091 1 16 (1010) 1646990 [5 4] (1076) 1644022[5:5] (1002)64399R[4 0] (1010) 1644026[4.3] (1034) 1847034[18] - (1018)647565[2.0] -(1002) 1644006 [3.5 (1009) 1643107[5.4] (1001)164,5108[4.2] (1017) 1646989[79] -- (1025)164 702R[4 4] T.W. Vinterior 21 (10,74) 164 \$189 [\$ 6] (1041) 164 1104 [3.2] (1033)1642548[17] 12.5 11 (1993) 1843) 05/21 (11 54) 1646994 [5.4] 7 red red (1104) 1644107 [1 8] (1102) 164 7587 [4 0] [81] 5051891 (4011) - (1106) 164,3118 14 21 (1201) 1643115[9.5] (1213) 16460013[1.4] (1105) 16475R7[39] (1104) 164 2007 [1 4] 20 (1114) 1643123 [4.1] (1110) 1646997 [274] - (1110)1641127 [19] (1114) 164 1125 [1 0] (1110) 164 \$105 [4.1] [0.205] 164 1995 [6.6], 1644025 [5.0] (1106) 164407 \$[2.4] - (1118) 1646996 [24] (1122) 164 7004 [31] (1057) 164 tr ts [5 0] (1049)164 3101 [15] Ξ (1208) 1647033[14] (1202) 1647586 [6.4] (1118)164.1112 [4 0] (1216)1641509 [4 0] (1114) 1546991 [2.7] (1113) 1644106 [NP] (1212)1647586[29] -(1224) 16431243 0], 1644108 [23] (4125) 1646985[3.0] (1121) 164.511 1[2 8] 1017 (1126) 164 3102 [34] (1172) 164,5996 [2.4] W ANDREW (17:0) 16469 79 2 6 116 10 (1206) 1646995, 1646998 [1.2] frank indisas [3.1] 110 100 66 (1705) 1646997 [1.7] (1201) 1647584 [3.2] .. [83] PERMIN [83] (193) (193) (193) (1710) 164 2008 [7.7] (1216) 16470.15 [2 4] [1113] 1644001 [111] (1224) 1643132 [1.2] (1220) 1646977 [3.4]-(1206) 15469 78 [18] (4100) 164 JOOO [15] (1714) 1644079 [9.7] (1109) 1643128 [26], 16469R7 [29] (1210) 164 S114 [2.R] (1014) 16469R0[5.2] - [(1106) 1646993 [17.4] No Data For This Localio ~. [58]8114491(4141) -[662]1643116[39]-(1213) 1647009[2.5] --- (1200) 1646999 [1.4] ---(1102) 164,5117[6.0] (1221)1643134[5.8] (1010) 16475A1[NP] (1006) 1643124 [1.9] (1114) 1641504(1) (1110)1646984[16]

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